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Effective: 03-June-2010

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GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the FAA, Department of Transportation, National Aeronautical Navigation Services, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: <http://nfdc.faa.gov/portal/airportchanges.do>

FAA, Aeronautical Information Services, ATO-R, Rm. 626
800 Independence Ave., SW
Washington, DC 20591
Telephone 1-866-295-8236
Fax 202-267-5322
Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

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| Effective Date | Airport Information | Airspace Information* |
|----------------|---------------------|-----------------------|
| | Cut-off date | Cut-off date |
| 3 Jun 10 | 21 Apr 10 | 1 Apr 10 |
| 29 Jul 10 | 16 Jun 10 | 27 May 10 |
| 23 Sep 10 | 11 Aug 10 | 22 Jul 10 |
| 18 Nov 10 | 6 Oct 10 | 16 Sep 10 |
| 13 Jan 11 | 1 Dec 10 | 11 Nov 10 |
| 10 Mar 11 | 26 Jan 11 | 6 Jan 11 |

*Including changes to preferred routes and graphic depictions on charts.

FOR CHARTING ERRORS CONTACT:

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1305 East West Highway
Silver Spring, MD 20910-3281
Telephone 1-800-626-3677
Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our website at <http://aeronav.faa.gov>.
See the FAQs prior to contact via toll free number.

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Telephone 1-800-638-8972
Fax 301-436-6829
or any authorized chart agent.

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—"req" may mean "request", "requesting", "requested", or "requests").

| | | | |
|--------|---|-------|---------------------------------------|
| AAF | Army Air Field | byd | beyond |
| AB | Airbase | C | Commercial Circuit (Telephone) |
| abv | above | CGAF | Coast Guard Air Facility |
| ACC | Air Combat Command; Area Control Center | CGAS | Coast Guard Air Station |
| acft | aircraft | CIV | Civil |
| ADCC | Air Defense Control Center | clsd | closed |
| AER | approach end rwy | comd | command |
| AFB | Air Force Base | CONUS | Continental United States |
| AFHP | Air Force Heliport | CSTMS | Customs |
| afld | airfield | ctc | contact |
| AFOD | US Army Flight Operations Detachment | ctl | control |
| AFRC | Armed Forces Reserve Center/Air Force Reserve Command | dalgt | daylight |
| AFSS | Automated Flight Service Station | Dec | December |
| AG | Agriculture | DIAP | DoD Instrument Approach Procedure |
| A-GEAR | Arresting Gear | DoD | Department of Defense |
| AGL | above ground level | DSN | Defense Switching Network (Telephone) |
| AHP | Army heliport | dspld | displaced |
| ALS | Approach Light System | durn | duration |
| alt | altitude | eff | effective |
| AMC | Air Mobility Command | emerg | emergency |
| ANGS | Air National Guard Station | EOR | End of Runway |
| apch | approach | ETA | Estimated Time of Arrival |
| Apr | April | ETD | Estimated Time of Departure |
| APU | Auxiliary Power Unit | exc | except |
| ARB | Air Reserve Base | extd | extend |
| arpt | airport | FBO | fixed-base operator |
| ARS | Air Reserve Station | Feb | February |
| AS | Air Station | fld | field |
| ASDE-X | Airport Surface Detection Equipment—Model X | FLIP | Flight Information Publication |
| ASU | Aircraft Starting Unit | flt | flight |
| ATC | Air Traffic Control | flw | follow |
| Aug | August | Fri | Friday |
| AUW | All Up Weight (gross weight) | FSS | Flight Service Station |
| avbl | available | GA | glide angle |
| bcn | beacon | GCA | Ground Controlled Approach |
| blo | below | GS | glide slope |
| | | haz | hazard |
| | | HQ | Headquarters |

CONTINUED ON NEXT PAGE

CONTINUED FROM PRECEDING PAGE

| | | | |
|--------|---|----------|---|
| hr | hour | npi | non precision instrument |
| IAP | Instrument Approach Procedure | NS ABTMT | Noise Abatement |
| ICAO | International Civil Aviation Organization | NSTD | nonstandard |
| IFR | Instrument Flight Rules | ntc | notice |
| ILS | Instrument Landing System | obsn | observation |
| IM | Inner Marker | Oct | October |
| IMG | Immigration | OLF | Outlying Field |
| incr | increase | opr | operate, operator, operational |
| indef | indefinite | ops | operations |
| ints | intensity | OTS | out of service |
| invo | in the vicinity of | ovrn | overrun |
| IMC | Instrument Meteorological Conditions | PAEW | personnel and equipment working |
| Jan | January | pat | pattern |
| JASU | Jet Aircraft Starting Unit | p-line | power line |
| JOAP | Joint Oil Analysis Program | PMSV | Pilot-to-Metro Service |
| JOSAC | Joint Operational Support Airlift Center | POL | Petrol, Oils and Lubricants |
| JRB | Joint Reserve Base | PPR | prior permission required |
| Jul | July | PRM | Precision Runway Monitoring |
| Jun | June | PTD | Pilot to Dispatcher |
| Kt | Knots | RAMCC | Regional Air Movement Control Center |
| LAA | Local Airport Advisory | req | request |
| LAHSO | Land and Hold Short Operations | rgt tfc | right traffic |
| lbs | pounds | RON | Remain Overnight |
| ldg | landing | rqr | require |
| lgt | lighted | rstd | restricted |
| lgts | lights | RSRS | reduced same runway separation |
| LMM | Compass locator at Middle Marker ILS | rw | runway |
| LOC | Localizer | Sat | Saturday |
| LOM | Compass locator at Outer Marker ILS | SELF | Strategic Expeditionary Landing Field |
| ltd | limited | Sep | September |
| MACC | Military Area Control Center | SFA | Single Frequency Approach |
| Mar | March | sfc | surface |
| MCAF | Marine Corps Air Facility | SFRA | Special Flight Rules Area |
| MICALF | Marine Corps Auxiliary Landing Field | SOAP | Spectrometric Oil Analysis Program |
| MCAS | Marine Corps Air Station | SOF | Supervisor of Flying |
| MCB | Marine Corps Base | SPB | Seaplane Base |
| med | medium | SR | sunrise |
| METRO | Pilot-to-Metro voice call | SS | sunset |
| Mil | military | std | standard |
| min | minute | Sun | Sunday |
| MLS | Microwave Landing System | svc | service |
| MM | Middle Marker of ILS | tfc | traffic |
| Mon | Monday | thld | threshold |
| MP | Maintenance Period | Thu | Thursday |
| MSL | mean sea level | tkf | take-off |
| MSAW | minimum safe altitude warning | tmp | temporary |
| NAAS | Naval Auxiliary Air Station | tran | transient |
| NADC | Naval Air Development Center | Tue | Tuesday |
| NADEP | Naval Air Depot | twr | tower |
| NAEC | Naval Air Engineering Center | twy | taxiway |
| NAES | Naval Air Engineering Station | UC | Under Construction |
| NAF | Naval Air Facility | USA | United States Army |
| NALCO | Naval Air Logistics Control Office | USAF | United States Air Force |
| NALO | Navy Air Logistics Office | USCG | United States Coast Guard |
| NALF | Naval Auxiliary Landing Field | USN | United States Navy |
| NAS | Naval Air Station | V | Defense Switching Network (telephone, formerly AUTOVON) |
| NAWC | Naval Air Warfare Center | VFR | Visual Flight Rules |
| NAWS | Naval Air Weapons Station | VIP | Very Important Person |
| ngt | night | VMC | Visual Meteorological Conditions |
| NOLF | Naval Outlying Field | Wed | Wednesday |
| Nov | November | wx | weather |

DIRECTORY LEGEND

SAMPLE

① CITY NAME
 ② AIRPORT NAME (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93' W99°20.20' JACKSONVILLE
 ③ 200 B S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV, ARFF Index A NOTAM FILE ORL Not insp. COPTER
 ④ ⑤ ⑥ ⑦ ⑧ ⑨ H-46, L-19C IAP, DIAP, AD

⑪ RWY 18-36: H12004X200 (ASPH-CONC-GRVD)
 S-90, D-160, DT-300 PCN 80 R/B/W/T HIRL CL
 RWY 18: LDIN. MALSF. TDZL. REIL. PAPI(P2R)—GA 3.0° TCH 36'.
 Thld displcd 300'. Trees. Rgt tfc. 0.3% up.
 RWY 36: ALSF1. 0.4% down.
 RWY 09-27: H6000X150 (ASPH) MIRL
 RWY 173-353: H3515X150 (ASPH-PFC) AUW PCN 59 F/A/W/T

⑫ LAND AND HOLD SHORT OPERATIONS
 LANDING HOLD SHORT POINT DIST AVBL
 RWY 18 09-27 6500
 RWY 36 09-27 5400

⑬ RUNWAY DECLARED DISTANCE INFORMATION
 RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504
 RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704

⑭ ARRESTING GEAR/SYSTEM
 RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650')
 BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36

⑮ MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on
 apch end. JASU 3(AM32A-60) 2(A/M32A-86)

⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿

㉑ FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX
 OIL O-128 TRAN ALERT Avbl 1300-0200Z†, svc limited weekends.

㉒ AIRPORT REMARKS: Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z†. Parachute
 Jumping. Deer invov arpt. Heavy jumbo jet training surface to 9000'. Twy A clsd indef. Flight Notification Service
 (ADCUS) avbl.

㉓ MILITARY REMARKS: ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15
 minutes prior to ldg and after dep. Limited tran parking.

㉔ WEATHER DATA SOURCES: AWOS-1 120.3 (202) 426-8000. LLWAS.

㉕ COMMUNICATIONS: SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2
 NAME FSS (ORL) on arpt. 123.65 122.65 122.2
 NAME RCO 112.2T 112.1R (NAME RADIO)
 NAME APP/DEP CON 128.35 257.725 (1200-0400Z†)
 TOWER 119.65 255.6 (1200-0400Z†) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) CLNC DEL 125.55
 NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257.5

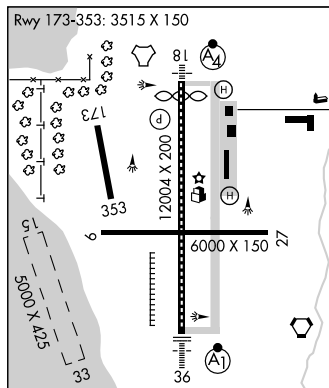
㉖ AIRSPACE: CLASS B See VFR Terminal Area Chart.

㉗ RADIO AIDS TO NAVIGATION: NOTAM FILE ORL. VHF/DF ctc FSS.
 (H) VORTAC 112.2 MCO Chan 59 N28°32.55' W81°20.12' at fld. 1110/8E.
 (H) TACAN Chan 29 CBU (109.2) N28°32.65' W81°21.12' at fld. 1115/8E.
 HERNY NDB (LOM) 221 OR N28°37.40' W81°21.05' 177° 5.4 NM to fld.
 ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.
 ASR/PAR (1200-0400Z†)

㉘ COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

HELIPAD H1: H100X75 (ASPH)
 HELIPAD H2: H60X60 (ASPH)
 HELIPOINT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.

187 TPA 1000(813)
 WATERWAY 15-33: 5000X425 (WATER)
 SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of
 arpt not visible from twr and are required to ctc twr.



All bearings and radials are magnetic unless otherwise specified.
 All mileages are nautical unless otherwise noted.

All times are Coordinated Universal Time (UTC) except as noted.











All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.

The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).



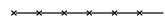








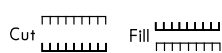



10

SKETCH LEGEND







RUNWAYS/LANDING AREAS

| | |
|--------------------------------|---|
| Hard Surfaced |  |
| Metal Surface |  |
| Sod, Gravel, etc. |  |
| Light Plane, |  |
| Ski Landing Area or Water |  |
| Under Construction |  |
| Closed |  |
| Helicopter Landings Area |  |
| Displaced Threshold |  |
| Taxiway, Apron and Stopways .. |  |






MISCELLANEOUS BASE AND CULTURAL FEATURES

| | |
|-------------------------------|---|
| Buildings |  |
| Power Lines |  |
| Fence |  |
| Towers |  |
| Tanks |  |
| Oil Well |  |
| Smoke Stack |  |
| Obstruction |  |
| Controlling Obstruction |  |
| Trees |  |
| Populated Places |  |
| Cuts and Fills |  |
| Cliffs and Depressions .. |  |
| Ditch |  |
| Hill |  |

RADIO AIDS TO NAVIGATION

















| | | | |
|------------|---|--------------|---|
| VORTAC ... |  | VOR |  |
| VOR/DME .. |  | NDB |  |
| TACAN |  | NDB/DME |  |

MISCELLANEOUS AERONAUTICAL FEATURES

| | |
|----------------------|---|
| Airport Beacon |  |
| Wind Cone |  |
| Landing Tee |  |
| Tetrahedron |  |
| Control Tower |  |

APPROACH LIGHTING SYSTEMS

A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., (A1) Negative symbology, e.g., (A1) (V) indicates Pilot Controlled Lighting (PCL).

| | |
|--|--|
| Runway Centerline Lighting |  |
| (A) Approach Lighting System ALSF-2 .. |  |
| (A1) Approach Lighting System ALSF-1 .. |  |
| (A2) Short Approach Lighting System SALS/SALSF |  |
| (A3) Simplified Short Approach Lighting System (SSALR) with RAIL |  |
| (A4) Medium Intensity Approach Lighting System (MALSR and MALSF)/(SSALS and SSALF) |  |
| (A5) Medium Intensity Approach Lighting System (MALSR) and RAIL |  |
| (V) Omnidirectional Approach Lighting System (ODALS) |  |
| (D) Navy Parallel Row and Cross Bar .. |  |
| (F) Air Force Overrun |  |
| (V) Visual Approach Slope Indicator with Standard Threshold Clearance provided |  |
| (V2) Pulsating Visual Approach Slope Indicator (PVASI) |  |
| (V3) Visual Approach Slope Indicator with a threshold crossing height to accommodate long bodied or jumbo aircraft |  |
| (V4) Tri-color Visual Approach Slope Indicator (TRCV) |  |
| (V5) Approach Path Alignment Panel (APAP) |  |
| (P) Precision Approach Path Indicator (PAPI) |  |

LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navairds, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

① CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

② ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

③ LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

④ OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

| | | | |
|---------|---------------------------------------|------|---|
| A | US Army | MC | Marine Corps |
| AFRC | Air Force Reserve Command | N | Navy |
| AF | US Air Force | NAF | Naval Air Facility |
| ANG | Air National Guard | NAS | Naval Air Station |
| AR | US Army Reserve | NASA | National Air and Space Administration |
| ARNG | US Army National Guard | P | US Civil Airport Wherein Permit Covers |
| CG | US Coast Guard | | Use by Transient Military Aircraft |
| CIV/MIL | Joint Use Civil/Military | PVT | Private Use Only (Closed to the Public) |
| DND | Department of National Defense Canada | | |

⑤ AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

⑥ TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

8 CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

9 INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAM

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

10 AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbolology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

11 ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00'". When elevation is below sea level a minus "–" sign will precede the figure.

12 ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

13 SERVICING—CIVIL

| | |
|--|--|
| S1: Minor airframe repairs. | S5: Major airframe repairs. |
| S2: Minor airframe and minor powerplant repairs. | S6: Minor airframe and major powerplant repairs. |
| S3: Major airframe and minor powerplant repairs. | S7: Major powerplant repairs. |
| S4: Major airframe and major powerplant repairs. | S8: Minor powerplant repairs. |

14 FUEL

| | | | |
|-------|---|----------|--|
| CODE | FUEL | CODE | FUEL |
| 80 | Grade 80 gasoline (Red) | B+ | Jet B, Wide-cut, turbine fuel with FS-II*, FP** minus 50° C. |
| 100 | Grade 100 gasoline (Green) | J4 (JP4) | (JP–4 military specification) FP** minus 58° C. |
| 100LL | 100LL gasoline (low lead) (Blue) | J5 (JP5) | (JP–5 military specification) Kerosene with FS–11, FP** minus 46°C. |
| 115 | Grade 115 gasoline (115/145 military specification) (Purple) | J8 (JP8) | (JP–8 military specification) Jet A–1, Kerosene with FS–II*, FP** minus 47°C. |
| A | Jet A, Kerosene, without FS–II*, FP** minus 40° C. | J8+100 | (JP–8 military specification) Jet A–1, Kerosene with FS–II*, FP** minus 47°C, with-fuel additive package that improves thermo stability characteristics of JP–8. |
| A+ | Jet A, Kerosene, with FS–II*, FP** minus 40°C. | J | (Jet Fuel Type Unknown) |
| A1 | Jet A–1, Kerosene, without FS–II*, FP** minus 47°C. | MOGAS | Automobile gasoline which is to be used as aircraft fuel. |
| A1+ | Jet A–1, Kerosene with FS–II*, FP** minus 47° C. | | |
| B | Jet B, Wide-cut, turbine fuel without FS–II*, FP** minus 50° C. | | |

*(Fuel System Icing Inhibitor)

**(Freeze Point)

NOTE: Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

15 OXYGEN—CIVIL

| | |
|--------------------|--|
| OX 1 High Pressure | OX 3 High Pressure—Replacement Bottles |
| OX 2 Low Pressure | OX 4 Low Pressure—Replacement Bottles |

16 TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

17 AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)

407-975-1740

Southeast Sector (Atlantic States—DC, WV, VA to FL)

407-975-1780

Central Sector (Interior of the US, including Gulf states—MS, AL, LA)

407-975-1760

Southwest East Sector (OK and eastern TX)

407-975-1840

Southwest West Sector (Western TX, NM and AZ)

407-975-1820

Pacific Sector (WA, OR, CA, HI and AK)

407-975-1800

18 CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS
AIRPORT CLASSIFICATIONS

| Type of Air Carrier Operation | Class I | Class II | Class III | Class IV |
|---|---------|----------|-----------|----------|
| Scheduled Air Carrier Aircraft with 31 or more passenger seats | X | | | |
| Unscheduled Air Carrier Aircraft with 31 or more passengers seats | X | X | | X |
| Scheduled Air Carrier Aircraft with 10 to 30 passenger seats | X | X | X | |

14 CFR—PART 139 CERTIFICATED AIRPORTS

INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

| Airport Index | Required No. Vehicles | Aircraft Length | Scheduled Departures | Agent + Water for Foam |
|---------------|-----------------------|---------------------------------------|----------------------|---|
| A | 1 | <90' | ≥1 | 500#DC or HALON 1211 or 450#DC + 100 gal H ₂ O |
| B | 1 or 2 | ≥90', <126' ----- ≥126', <159' | ≥5 ----- <5 | Index A + 1500 gal H ₂ O |
| C | 2 or 3 | ≥126', <159' ----- ≥159', <200' | ≥5 ----- <5 | Index A + 3000 gal H ₂ O |
| D | 3 | ≥159', <200' ----- >200' | <5 | Index A + 4000 gal H ₂ O |
| E | 3 | ≥200' | ≥5 | Index A + 6000 gal H ₂ O |

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂O—Water; DC—Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

19 NOTAM SERVICE

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

ATC Procedures for detailed description of NOTAM's. Current NOTAMS are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMS are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault strips are shown by magnetic bearing.

RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

| | | |
|-------------------------------------|---|--------------------------------------|
| (AFSC)—Aggregate friction seal coat | (GRVL)—Gravel, or cinders | (PSP)—Pierced steel plank |
| (ASPH)—Asphalt | (MATS)—Pierced steel planking, landing mats, membranes | (RFSC)—Rubberized friction seal coat |
| (CONC)—Concrete | (PEM)—Part concrete, part asphalt | (TURF)—Turf |
| (DIRT)—Dirt | (PFC)—Porous friction courses | (TRTD)—Treated |
| (GRVD)—Grooved | | (WC)—Wire combed |

RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

| CURRENT | NEW | NEW DESCRIPTION |
|---------|--------|--|
| S | S | Single wheel type landing gear (DC3), (C47), (F15), etc. |
| D | D | Dual wheel type landing gear (BE1900), (B737), (A319), etc. |
| T | D | Dual wheel type landing gear (P3, C9). |
| ST | 2S | Two single wheels in tandem type landing gear (C130). |
| TRT | 2T | Two triple wheels in tandem type landing gear (C17), etc. |
| DT | 2D | Two dual wheels in tandem type landing gear (B707), etc. |
| TT | 2D | Two dual wheels in tandem type landing gear (B757, KC135). |
| SBTT | 2D/D1 | Two dual wheels in tandem/dual wheel body gear type landing gear (KC10). |
| None | 2D/2D1 | Two dual wheels in tandem/two dual wheels in tandem body gear type landing gear (A340-600). |
| DDT | 2D/2D2 | Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4). |
| TTT | 3D | Three dual wheels in tandem type landing gear (B777), etc. |
| TT | D2 | Dual wheel gear two struts per side main gear type landing gear (B52). |
| TDT | C5 | Complex dual wheel and quadruple wheel combination landing gear (C5). |

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
 - R — Rigid
 - F — Flexible
- (3) The pavement subgrade category:
 - A — High
 - B — Medium
 - C — Low
 - D — Ultra-low
- (4) The maximum tire pressure authorized for the pavement:
 - W — High, no limit
 - X — Medium, limited to 217 psi
 - Y — Low, limited to 145 psi
 - Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
 - T — Technical evaluation
 - U — By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS—Omni Directional Approach Lighting System.

AF OVRN—Air Force Overrun 1000' Standard Approach Lighting System.

LDIN—Lead-In Lighting System.

MALS—Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF—Sequenced Flashing Lights.

OLS—Optical Landing System.

WAVE—OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

PNIL APAP on left side of runway

PNIR APAP on right side of runway

PAPI—Precision Approach Path Indicator

P2L 2-identical light units placed on left side of runway

P4L 4-identical light units placed on left side of runway

P2R 2-identical light units placed on right side of runway

P4R 4-identical light units placed on right side of runway

PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.

PSIL PVASI on left side of runway

PSIR PVASI on right side of runway

SAVASI—Simplified Abbreviated Visual Approach Slope Indicator

S2L 2-box SAVASI on left side of runway

S2R 2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

TRIL TRCV on left side of runway

TRIR TRCV on right side of runway

VASI—Visual Approach Slope Indicator

V2L 2-box VASI on left side of runway

V6L 6-box VASI on left side of runway

V2R 2-box VASI on right side of runway

V6R 6-box VASI on right side of runway

V4L 4-box VASI on left side of runway

V12 12-box VASI on both sides of runway

V4R 4-box VASI on right side of runway

V16 16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

| Key Mike | Function |
|--------------------------|--|
| 7 times within 5 seconds | Highest intensity available |
| 5 times within 5 seconds | Medium or lower intensity (Lower REIL or REIL-Off) |
| 3 times within 5 seconds | Lowest intensity available (Lower REIL or REIL-Off) |

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

22 ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a-gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A-Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

| <u>TYPE</u> | <u>DESCRIPTION</u> |
|-------------|---|
| BAK-9 | Rotary friction brake. |
| BAK-12A | Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary friction brake. |
| BAK-12B | Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary friction brake. |
| E28 | Rotary Hydraulic (Water Brake). |
| M21 | Rotary Hydraulic (Water Brake) Mobile. |

The following device is used in conjunction with some aircraft arresting systems:

| | |
|--------|---|
| BAK-14 | A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.) |
| H | A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to one and one-half seconds to fully raise the cable.) |

UNI-DIRECTIONAL CABLE

| <u>TYPE</u> | <u>DESCRIPTION</u> |
|--------------|--|
| MB60 | Textile brake—an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy. |
| E5/E5-1/E5-3 | Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under Military Service. |

FOREIGN CABLE

| <u>TYPE</u> | <u>DESCRIPTION</u> | <u>US EQUIVALENT</u> |
|-------------|-----------------------------------|----------------------|
| 44B-3H | Rotary Hydraulic (Water Brake) | |
| CHAG | Chain | E-5 |

UNI-DIRECTIONAL BARRIER

| <u>TYPE</u> | <u>DESCRIPTION</u> |
|-------------|---|
| MA-1A | Web barrier between stanchions attached to a chain energy absorber. |
| BAK-15 | Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction, chain). Designed for wing engagement. |

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

| <u>TYPE</u> | <u>DESCRIPTION</u> |
|-------------|---|
| EMAS | Engineered Material Arresting System, located beyond the departure end of the runway, consisting of high energy absorbing materials which will crush under the weight of an aircraft. |

23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24 JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

ELECTRICAL STARTING UNITS:

| | |
|-----------|--|
| A/M32A-86 | AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack) |
| MC-1A | AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire DC: 28v, 500 amp, 14 kw |
| MD-3 | AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus |
| MD-3A | AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus |
| MD-3M | AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw |

| | |
|--|---|
| MD-4 | AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva, 0.8 pf, 520 amp, 2 wire |
| AIR STARTING UNITS | |
| AM32-95 | 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia |
| AM32A-95 | 150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig) |
| LASS | 150 +/- 5 lb/min @ 49 +/- 2 psia |
| MA-1A | 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press |
| MC-1 | 15 cfm, 3500 psia |
| MC-1A | 15 cfm, 3500 psia |
| MC-2A | 15 cfm, 200 psia |
| MC-11 | 8,000 cu in cap, 4000 psig, 15 cfm |
| COMBINED AIR AND ELECTRICAL STARTING UNITS: | |
| AGPU | AC: 115/200v, 400 cycle, 3 phase, 30 kw gen DC: 28v, 700 amp AIR: 60 lb/min @ 40 psig @ sea level |
| AM32A-60* | AIR: 120 +/- 4 lb/min (1644 +/- 55 cfm) at 49 +/- 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva DC: 28v, 500 amp, 15 kw |
| AM32A-60A | AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw |
| AM32A-60B* | AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw |
| *NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available. | |
| USN JASU | |
| ELECTRICAL STARTING UNITS: | |
| NC-8A/A1 | DC: 500 amp constant, 750 amp intermittent, 28v; AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz. |
| NC-10A/A1/B/C | DC: 750 amp constant, 1000 amp intermittent, 28v; AC: 90 kva, 115/200v, 3 phase, 400 Hz. |
| AIR STARTING UNITS: | |
| GTC-85/GTE-85 | 120 lbs/min @ 45 psi. |
| MSU-200NAV/A/U47A-5 | 204 lbs/min @ 56 psia. |
| WELLS AIR START SYSTEM | 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability. |
| COMBINED AIR AND ELECTRICAL STARTING UNITS: | |
| NCPP-105/RCPT | 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC, 30 kva. |
| JASU (ARMY) | |
| 59B2-1B | 28v, 7.5 kw, 280 amp. |
| OTHER JASU | |
| ELECTRICAL STARTING UNITS (DND): | |
| CE12 | AC 115/200v, 140 kva, 400 Hz, 3 phase |
| CE13 | AC 115/200v, 60 kva, 400 Hz, 3 phase |
| CE14 | AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp |
| CE15 | DC 22-35v, 500 amp continuous 1100 amp intermittent |
| CE16 | DC 22-35v, 500 amp continuous 1100 amp intermittent soft start |
| AIR STARTING UNITS (DND): | |
| CA2 | ASA 45.5 psig, 116.4 lb/min |
| COMBINED AIR AND ELECTRICAL STARTING UNITS (DND) | |
| CEA1 | AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp AIR 112.5 lb/min, 47 psig |
| ELECTRICAL STARTING UNITS (OTHER) | |
| C-26 | 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire |
| C-26-B, C-26-C | 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire |
| E3 | DC 28v/10kw |
| AIR STARTING UNITS (OTHER): | |
| A4 | 40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B) |
| MA-1 | 150 Air HP, 115 lb/min 50 psia |
| MA-2 | 250 Air HP, 150 lb/min 75 psia |
| CARTRIDGE: | |
| MXU-4A | USAF |

(25) FUEL—MILITARY

Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

(26) SUPPORTING FLUIDS AND SYSTEMS—MILITARY**CODE**

| | |
|--|--|
| ADI | Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft. |
| W | Water Thrust Augmentation—Jet Aircraft. |
| WAI | Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft. |
| SP | Single Point Refueling. |
| PRESAIR | Air Compressors rated 3,000 PSI or more. |
| De-Ice | Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243). |
| OXYGEN: | |
| LPOX | Low pressure oxygen servicing. |
| HPOX | High pressure oxygen servicing. |
| LHOX | Low and high pressure oxygen servicing. |
| LOX | Liquid oxygen servicing. |
| ORXB | Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.) |
| OX | Indicates oxygen servicing when type of servicing is unknown. |
| NOTE: Combinations of above items is used to indicate complete oxygen servicing available; | |
| LHOXRB | Low and high pressure oxygen servicing and replacement bottles; |
| LPOXRB | Low pressure oxygen replacement bottles only, etc. |

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

NITROGEN:

| | |
|-------|---|
| LPNIT | Low pressure nitrogen servicing. |
| HPNIT | High pressure nitrogen servicing. |
| LHNIT | Low and high pressure nitrogen servicing. |

(27) OIL—MILITARY

US AVIATION OILS (MIL SPECS):

| CODE | GRADE, TYPE |
|-----------|--|
| O-113 | 1065, Reciprocating Engine Oil (MIL-L-6082) |
| O-117 | 1100, Reciprocating Engine Oil (MIL-L-6082) |
| O-117+ | 1100, O-117 plus cyclohexanone (MIL-L-6082) |
| O-123 | 1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III) |
| O-128 | 1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II) |
| O-132 | 1005, Jet Engine Oil (MIL-L-6081) |
| O-133 | 1010, Jet Engine Oil (MIL-L-6081) |
| O-147 | None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic |
| O-148 | None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil |
| O-149 | None, Aircraft Turbine Engine Synthetic, 7.5c St |
| O-155 | None, MIL-L-6086C, Aircraft, Medium Grade |
| O-156 | None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines |
| JOAP/SOAP | Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.) |

(28) TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on board are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

31 WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

32 COMMUNICATIONS

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on aprt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation. (See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies—Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remote facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol **Ⓡ** indicates radar approach control.


TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six “key clicks” to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol  indicates radar departure control.

CLNC DEL—Clearance Delivery.

PRE TAXI CLNC—Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as “Wx obsn svc 1900–0000Z+” or “other times” may be used when no specific time is given. PMSV facilities manned by forecasters are considered “Full Service”. PMSV facilities manned by weather observers are listed as “Limited Service”.

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW—Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter “X” indicate frequency available on request.

AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc “times” ctc **APP CON** other times CLASS E:

or

AIRSPACE: CLASS D svc “times” other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700’ or 1200’ AGL. This will be formatted as:

AIRSPACE: CLASS C svc “times” ctc **APP CON** other times CLASS G, with CLASS E 700’ (or 1200’) AGL & abv:

or

AIRSPACE: CLASS D svc “times” other times CLASS G with CLASS E 700’ (or 1200’) AGL & abv:

or

AIRSPACE: CLASS E svc “times” other times CLASS G with CLASS E 700’ (or 1200’) AGL & abv.

NOTE: AIRSPACE SVC “TIMES” INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

Class E 700’ AGL (shown as magenta vignette on sectional charts) and 1200’ AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700’/1200’ AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)

CONTINUED FROM PRECEDING PAGE

The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

| | |
|---------------|--|
| AB _____ | Automatic Weather Broadcast. |
| DF _____ | Direction Finding Service. |
| DME _____ | UHF standard (TACAN compatible) distance measuring equipment. |
| DME(Y) _____ | UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME. |
| GS _____ | Glide slope. |
| H _____ | Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes). |
| HH _____ | Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes). |
| H-SAB _____ | Non-directional radio beacons providing automatic transcribed weather service. |
| ILS _____ | Instrument Landing System (voice, where available, on localizer channel). |
| IM _____ | Inner marker. |
| ISMLS _____ | Interim Standard Microwave Landing System. |
| LDA _____ | Localizer Directional Aid. |
| LMM _____ | Compass locator station when installed at middle marker site (15 NM at all altitudes). |
| LOM _____ | Compass locator station when installed at outer marker site (15 NM at all altitudes). |
| MH _____ | Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes). |
| MLS _____ | Microwave Landing System. |
| MM _____ | Middle marker. |
| OM _____ | Outer marker. |
| S _____ | Simultaneous range homing signal and/or voice. |
| SABH _____ | Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts. |
| SDF _____ | Simplified Direction Facility. |
| TACAN _____ | UHF navigational facility-omnidirectional course and distance information. |
| VOR _____ | VHF navigational facility-omnidirectional course only. |
| VOR/DME _____ | Collocated VOR navigational facility and UHF standard distance measuring equipment. |
| VORTAC _____ | Collocated VOR and TACAN navigational facilities. |
| W _____ | Without voice on radio facility frequency. |
| Z _____ | VHF station location marker at a LF radio facility. |

ILS FACILITY PERFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A – 4 NM prior to runway threshold, B – 3500 ft prior to runway threshold, C – glide angle dependent but generally 750–1000 ft prior to threshold, T – runway threshold, D – 3000 ft after runway threshold, and E – 2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:

ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.

ILS Facility Performance
Classification Code

FREQUENCY PAIRING PLAN AND MLS CHANNELING

| MLS CHANNEL | VHF FREQUENCY | TACAN CHANNEL | MLS CHANNEL | VHF FREQUENCY | TACAN CHANNEL | MLS CHANNEL | VHF FREQUENCY | TACAN CHANNEL |
|-------------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|
| 500 | 108.10 | 18X | 568 | 109.45 | 31Y | 636 | 114.15 | 88Y |
| 502 | 108.30 | 20X | 570 | 109.55 | 32Y | 638 | 114.25 | 89Y |
| 504 | 108.50 | 22X | 572 | 109.65 | 33Y | 640 | 114.35 | 90Y |
| 506 | 108.70 | 24X | 574 | 109.75 | 34Y | 642 | 114.45 | 91Y |
| 508 | 108.90 | 26X | 576 | 109.85 | 35Y | 644 | 114.55 | 92Y |
| 510 | 109.10 | 28X | 578 | 109.95 | 36Y | 646 | 114.65 | 93Y |
| 512 | 109.30 | 30X | 580 | 110.05 | 37Y | 648 | 114.75 | 94Y |
| 514 | 109.50 | 32X | 582 | 110.15 | 38Y | 650 | 114.85 | 95Y |
| 516 | 109.70 | 34X | 584 | 110.25 | 39Y | 652 | 114.95 | 96Y |
| 518 | 109.90 | 36X | 586 | 110.35 | 40Y | 654 | 115.05 | 97Y |
| 520 | 110.10 | 38X | 588 | 110.45 | 41Y | 656 | 115.15 | 98Y |
| 522 | 110.30 | 40X | 590 | 110.55 | 42Y | 658 | 115.25 | 99Y |
| 524 | 110.50 | 42X | 592 | 110.65 | 43Y | 660 | 115.35 | 100Y |
| 526 | 110.70 | 44X | 594 | 110.75 | 44Y | 662 | 115.45 | 101Y |
| 528 | 110.90 | 46X | 596 | 110.85 | 45Y | 664 | 115.55 | 102Y |
| 530 | 111.10 | 48X | 598 | 110.95 | 46Y | 666 | 115.65 | 103Y |
| 532 | 111.30 | 50X | 600 | 111.05 | 47Y | 668 | 115.75 | 104Y |
| 534 | 111.50 | 52X | 602 | 111.15 | 48Y | 670 | 115.85 | 105Y |
| 536 | 111.70 | 54X | 604 | 111.25 | 49Y | 672 | 115.95 | 106Y |
| 538 | 111.90 | 56X | 606 | 111.35 | 50Y | 674 | 116.05 | 107Y |
| 540 | 108.05 | 17Y | 608 | 111.45 | 51Y | 676 | 116.15 | 108Y |
| 542 | 108.15 | 18Y | 610 | 111.55 | 52Y | 678 | 116.25 | 109Y |
| 544 | 108.25 | 19Y | 612 | 111.65 | 53Y | 680 | 116.35 | 110Y |
| 546 | 108.35 | 20Y | 614 | 111.75 | 54Y | 682 | 116.45 | 111Y |
| 548 | 108.45 | 21Y | 616 | 111.85 | 55Y | 684 | 116.55 | 112Y |
| 550 | 108.55 | 22Y | 618 | 111.95 | 56Y | 686 | 116.65 | 113Y |
| 552 | 108.65 | 23Y | 620 | 113.35 | 80Y | 688 | 116.75 | 114Y |
| 554 | 108.75 | 24Y | 622 | 113.45 | 81Y | 690 | 116.85 | 115Y |
| 556 | 108.85 | 25Y | 624 | 113.55 | 82Y | 692 | 116.95 | 116Y |
| 558 | 108.95 | 26Y | 626 | 113.65 | 83Y | 694 | 117.05 | 117Y |
| 560 | 109.05 | 27Y | 628 | 113.75 | 84Y | 696 | 117.15 | 118Y |
| 562 | 109.15 | 28Y | 630 | 113.85 | 85Y | 698 | 117.25 | 119Y |
| 564 | 109.25 | 29Y | 632 | 113.95 | 86Y | | | |
| 566 | 109.35 | 30Y | 634 | 114.05 | 87Y | | | |

FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

| TACAN CHANNEL | VHF FREQUENCY | MLS CHANNEL | TACAN CHANNEL | VHF FREQUENCY | MLS CHANNEL | TACAN CHANNEL | VHF FREQUENCY | MLS CHANNEL |
|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|
| 2X | 134.5 | - | 19Y | 108.25 | 544 | 25X | 108.80 | - |
| 2Y | 134.55 | - | 20X | 108.30 | 502 | 25Y | 108.85 | 556 |
| 11X | 135.4 | - | 20Y | 108.35 | 546 | 26X | 108.90 | 508 |
| 11Y | 135.45 | - | 21X | 108.40 | - | 26Y | 108.95 | 558 |
| 12X | 135.5 | - | 21Y | 108.45 | 548 | 27X | 109.00 | - |
| 12Y | 135.55 | - | 22X | 108.50 | 504 | 27Y | 109.05 | 560 |
| 17X | 108.00 | - | 22Y | 108.55 | 550 | 28X | 109.10 | 510 |
| 17Y | 108.05 | 540 | 23X | 108.60 | - | 28Y | 109.15 | 562 |
| 18X | 108.10 | 500 | 23Y | 108.65 | 552 | 29X | 109.20 | - |
| 18Y | 108.15 | 542 | 24X | 108.70 | 506 | 29Y | 109.25 | 564 |
| 19X | 108.20 | - | 24Y | 108.75 | 554 | 30X | 109.30 | 512 |

| TACAN CHANNEL | VHF FREQUENCY | MLS CHANNEL | TACAN CHANNEL | VHF FREQUENCY | MLS CHANNEL | TACAN CHANNEL | VHF FREQUENCY | MLS CHANNEL |
|------------------|------------------|----------------|------------------|------------------|----------------|------------------|------------------|----------------|
| 30Y | 109.35 | 566 | 63X | 133.60 | - | 95Y | 114.85 | 650 |
| 31X | 109.40 | - | 63Y | 133.65 | - | 96X | 114.90 | - |
| 31Y | 109.45 | 568 | 64X | 133.70 | - | 96Y | 114.95 | 652 |
| 32X | 109.50 | 514 | 64Y | 133.75 | - | 97X | 115.00 | - |
| 32Y | 109.55 | 570 | 65X | 133.80 | - | 97Y | 115.05 | 654 |
| 33X | 109.60 | - | 65Y | 133.85 | - | 98X | 115.10 | - |
| 33Y | 109.65 | 572 | 66X | 133.90 | - | 98Y | 115.15 | 656 |
| 34X | 109.70 | 516 | 66Y | 133.95 | - | 99X | 115.20 | - |
| 34Y | 109.75 | 574 | 67X | 134.00 | - | 99Y | 115.25 | 658 |
| 35X | 109.80 | - | 67Y | 134.05 | - | 100X | 115.30 | - |
| 35Y | 109.85 | 576 | 68X | 134.10 | - | 100Y | 115.35 | 660 |
| 36X | 109.90 | 518 | 68Y | 134.15 | - | 101X | 115.40 | - |
| 36Y | 109.95 | 578 | 69X | 134.20 | - | 101Y | 115.45 | 662 |
| 37X | 110.00 | - | 69Y | 134.25 | - | 102X | 115.50 | - |
| 37Y | 110.05 | 580 | 70X | 112.30 | - | 102Y | 115.55 | 664 |
| 38X | 110.10 | 520 | 70Y | 112.35 | - | 103X | 115.60 | - |
| 38Y | 110.15 | 582 | 71X | 112.40 | - | 103Y | 115.65 | 666 |
| 39X | 110.20 | - | 71Y | 112.45 | - | 104X | 115.70 | - |
| 39Y | 110.25 | 584 | 72X | 112.50 | - | 104Y | 115.75 | 668 |
| 40X | 110.30 | 522 | 72Y | 112.55 | - | 105X | 115.80 | - |
| 40Y | 110.35 | 586 | 73X | 112.60 | - | 105Y | 115.85 | 670 |
| 41X | 110.40 | - | 73Y | 112.65 | - | 106X | 115.90 | - |
| 41Y | 110.45 | 588 | 74X | 112.70 | - | 106Y | 115.95 | 672 |
| 42X | 110.50 | 524 | 74Y | 112.75 | - | 107X | 116.00 | - |
| 42Y | 110.55 | 590 | 75X | 112.80 | - | 107Y | 116.05 | 674 |
| 43X | 110.60 | - | 75Y | 112.85 | - | 108X | 116.10 | - |
| 43Y | 110.65 | 592 | 76X | 112.90 | - | 108Y | 116.15 | 676 |
| 44X | 110.70 | 526 | 76Y | 112.95 | - | 109X | 116.20 | - |
| 44Y | 110.75 | 594 | 77X | 113.00 | - | 109Y | 116.25 | 678 |
| 45X | 110.80 | - | 77Y | 113.05 | - | 110X | 116.30 | - |
| 45Y | 110.85 | 596 | 78X | 113.10 | - | 110Y | 116.35 | 680 |
| 46X | 110.90 | 528 | 78Y | 113.15 | - | 111X | 116.40 | - |
| 46Y | 110.95 | 598 | 79X | 113.20 | - | 111Y | 116.45 | 682 |
| 47X | 111.00 | - | 79Y | 113.25 | - | 112X | 116.50 | - |
| 47Y | 111.05 | 600 | 80X | 113.30 | - | 112Y | 116.55 | 684 |
| 48X | 111.10 | 530 | 80Y | 113.35 | 620 | 113X | 116.60 | - |
| 48Y | 111.15 | 602 | 81X | 113.40 | - | 113Y | 116.65 | 686 |
| 49X | 111.20 | - | 81Y | 113.45 | 622 | 114X | 116.70 | - |
| 49Y | 111.25 | 604 | 82X | 113.50 | - | 114Y | 116.75 | 688 |
| 50X | 111.30 | 532 | 82Y | 113.55 | 624 | 115X | 116.80 | - |
| 50Y | 111.35 | 606 | 83X | 113.60 | - | 115Y | 116.85 | 690 |
| 51X | 111.40 | - | 83Y | 113.65 | 626 | 116X | 116.90 | - |
| 51Y | 111.45 | 608 | 84X | 113.70 | - | 116Y | 116.95 | 692 |
| 52X | 111.50 | 534 | 84Y | 113.75 | 628 | 117X | 117.00 | - |
| 52Y | 111.55 | 610 | 85X | 113.80 | - | 117Y | 117.05 | 694 |
| 53X | 111.60 | - | 85Y | 113.85 | 630 | 118X | 117.10 | - |
| 53Y | 111.65 | 612 | 86X | 113.90 | - | 118Y | 117.15 | 696 |
| 54X | 111.70 | 536 | 86Y | 113.95 | 632 | 119X | 117.20 | - |
| 54Y | 111.75 | 614 | 87X | 114.00 | - | 119Y | 117.25 | 698 |
| 55X | 111.80 | - | 87Y | 114.05 | 634 | 120X | 117.30 | - |
| 55Y | 111.85 | 616 | 88X | 114.10 | - | 120Y | 117.35 | - |
| 56X | 111.90 | 538 | 88Y | 114.15 | 636 | 121X | 117.40 | - |
| 56Y | 111.95 | 618 | 89X | 114.20 | - | 121Y | 117.45 | - |
| 57X | 112.00 | - | 89Y | 114.25 | 638 | 122X | 117.50 | - |
| 57Y | 112.05 | - | 90X | 114.30 | - | 122Y | 117.55 | - |
| 58X | 112.10 | - | 90Y | 114.35 | 640 | 123X | 117.60 | - |
| 58Y | 112.15 | - | 91X | 114.40 | - | 123Y | 117.65 | - |
| 59X | 112.20 | - | 91Y | 114.45 | 642 | 124X | 117.70 | - |
| 59Y | 112.25 | - | 92X | 114.50 | - | 124Y | 117.75 | - |
| 60X | 133.30 | - | 92Y | 114.55 | 644 | 125X | 117.80 | - |
| 60Y | 133.35 | - | 93X | 114.60 | - | 125Y | 117.85 | - |
| 61X | 133.40 | - | 93Y | 114.65 | 646 | 126X | 117.90 | - |
| 61Y | 133.45 | - | 94X | 114.70 | - | 126Y | 117.95 | - |
| 62X | 133.50 | - | 94Y | 114.75 | 648 | | | |
| 62Y | 133.55 | - | 95X | 114.80 | - | | | |

(35) COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

AHOSKIE**TRI-CO** (ASJ) 9 W UTC-5(-4DT) N36°17.85' W77°10.25'

68 B FUEL 100LL, JET A1+ NOTAM FILE ASJ

RWY 01-19: H4502X75 (ASPH) S-35, D-45 MIRL

RWY 01: REIL. PAPI(P2L)—GA 3.05° TCH 39'. Road.

RWY 19: REIL. PAPI(P2L)—GA 3.0° TCH 36'. Tree.

AIRPORT REMARKS: Attended Mon-Sat 1400Z±-dusk, Sun

1900Z±-dusk. Rwy 01-19 -4' ditch 120' left and right of

centerline. REIL Rwy 01 OTS indef. REIL Rwy 19 OTS indef. PAPI

Rwy 19 OTS indef. ACTIVATE MIRL Rwy 01-19, REIL Rwy 01 and

Rwy 19—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.075 (252) 345-2967.**COMMUNICATIONS:** CTAF/UNICOM 122.8

WASHINGTON CENTER APP/DEP CON 123.85

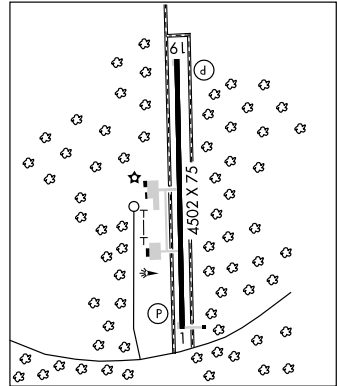
RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.**COFIELD (L) VORTAC** 114.6 CVI Chan 93 N36°22.37'

W76°52.29' 262° 15.2 NM to fld. 70/09W.

WASHINGTON

L-35C, 366

IAP

**AIR HARBOR** (See GREENSBORO)**AIRLI** N34°11.48' W77°51.98' NOTAM FILE ILM.**CHARLOTTE**

NDB (LOM) 281 IL 346° 5.1 NM to Wilmington Intl. Unmonitored when twr clsd.

ALBEMARLE**STANLY CO**

(VUJ) 4 NE UTC-5(-4DT) N35°25.00' W80°09.05'

CHARLOTTE

609 B S4 FUEL 100LL, JET A1+ OX 2 TPA—See Remarks NOTAM FILE VUJ

H-9B, 12G, L-25E, 36E

RWY 04R-22L: H5500X100 (ASPH) D-130, ST-175 MIRL 0.6% up SW

IAP

RWY 04R: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Trees.

RWY 22L: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Tree.

RWY 04L-22R: H3500X75 (ASPH) D-130, ST-175 MIRL

0.3% up SW

RWY 04L: Fence.

RWY 22R: Trees.

AIRPORT REMARKS: Attended 1300-0100Z±. Fuel avbl from FBO 1300-0100Z± other times PPR, C704-982-9013. Self-service fuel available 24 hrs with credit card. Government credit card accepted. Be alert for high speed low level mil acft in vicinity. Frequent ngt mil opr. Frequent assault ops to Rwy 22R. Deer and bird hazard. TPA—1709 (1100), rectangular 2309 (1700), overhead 2809 (2200). No maintenance personnel or equipment. No cargo handling equipment, hangar space and security avbl. Fire protection limited. Regional Training Site (RTS) support coordinated thru 145 AW/CE DSN 231-4229. Air National Guard ramp rstd to mil use only with PPR. Maximum three C-130 acft. Ctc 145 AW Afid Management DSN 231-4177, C704-391-4177. ACTIVATE MIRL Rwy 04L-22R and Rwy 04R-22L and REIL Rwy 04R and Rwy 22L—CTAF. PAPI Rwy 04R and Rwy 22L on during twr opr, other times—CTAF.

WEATHER DATA SOURCES: AWOS-3 128.175 (704) 986-2097.**COMMUNICATIONS:** CTAF 126.275 UNICOM 123.0

CHARLOTTE APP/DEP CON 128.32 CLNC DEL 128.5

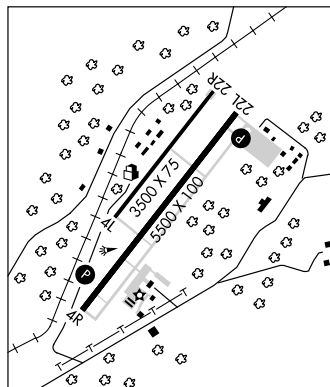
TOWER 126.275 (Mon-Fri 1300-0300Z±) except holidays or by NOTAM. GND CON 121.75 CLNC DEL 121.75

AIRSPACE: CLASS D svc Mon-Fri 1300-0300Z± except holidays or by NOTAM, other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 297° 30.2 NM to fld. 590/03W.

ALLER NDB (MHW/LOM) 346 VU N35°29.35' W80°05.01' 223° 5.5 NM to fld.

ILS 110.55 I-VUJ Rwy 22L. LOM ALLER NDB.

COMM/NAV/WEATHER REMARKS: Charlotte CLNC DEL OTS indef. Twr svc provided by Air Guard.**ALBERT J. ELLIS** (See JACKSONVILLE)**ALLER** N35°29.35' W80°05.01' NOTAM FILE RDU.

CHARLOTTE

NDB (MHW/LOM) 346 VU 223° 5.6 NM to Stanly Co.

L-25E, 36F

ALWOOD N35°42.41' W77°22.31' NOTAM FILE PGV.

CHARLOTTE

NDB (MHW) 230 AQE 198° 4.3 NM to Pitt-Greenville.

L-35C

ANDREWS**WESTERN CAROLINA RGNL** (RHP) 2 W UTC-5(-4DT) N35°11.71' W83°51.78'

ATLANTA

1697 B S4 FUEL 100LL, JET A, A1+ OX 1, 2 NOTAM FILE RHP

H-9B, 12F, L-25B

RWY 08-26: H5500X100 (ASPH) S-25, D-45 MIRL 0.3% up NE

IAP

RWY 08: REIL. PAPI(P2L)—GA 3.5° TCH 38'. Railroad. Rgt tfc.

RWY 26: PAPI (P2L)—GA 4.0° TCH 44'. Trees.

AIRPORT REMARKS: Attended Nov-Mar 1300-2200Z±, Apr-Oct 1300-0000Z±. For fuel svc after hrs call 828-321-5114. Low flying acft overfly arpt. For information ctc FSS, Rwy 08, 8' drop-off, 108 ft from thld both sides in rwy safety area. Twy unlgtd. ACTIVATE REIL Rwy 08—CTAF. PAPI Rwy 08 and Rwy 26 opr continuously. MIRL Rwy 08-26 on dusk-dawn. To incr ints—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.675 (828) 321-1049.**COMMUNICATIONS:** CTAF/UNICOM 122.8

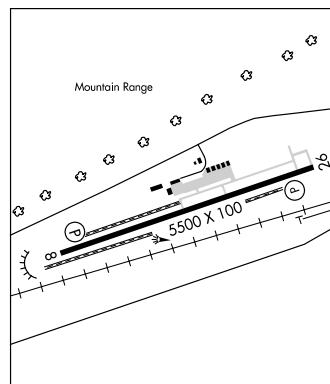
ATLANTA CENTER APP/DEP CON 134.8

RADIO AIDS TO NAVIGATION: NOTAM FILE MCN.

HARRIS (L) VORTACW 109.8 HRS Chan 35 N34°56.58'

W83°54.94' 010° 15.3 NM to fld. 3660/00E.

HIWAS.



ANSON CO (See WADESBORO)**ASHE CO** (See JEFFERSON)**ASHEBORO RGNL** (HBI) 6 SW UTC-5(-4DT) N35°39.27' W79°53.69'

671 B S4 FUEL 100LL, JET A1+ NOTAM FILE HBI

RWY 03-21: H5501X100 (ASPH) S-20 MIRL

RWY 03: REIL. PAPI(P2L)—GA 3.5° TCH 50'.

RWY 21: REIL. PAPI(P2L)—GA 3.0° TCH 35'. Trees.

AIRPORT REMARKS: Attended Oct-May 1300Z±-dusk, Jun-Sep 1300Z±-0100Z±. 24 hr self svc avbl with credit card. Rwy 03 has 40' dropoff 400' from thld. Terrain rising south of the arpt.

ACTIVATE REIL Rwy 03 and 21, PAPI Rwy 03 and Rwy 21 after 0400Z±, MIRL Rwy 03-21—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.275 (336) 626-7933.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **GREENSBORO APP/DEP CON** 118.5

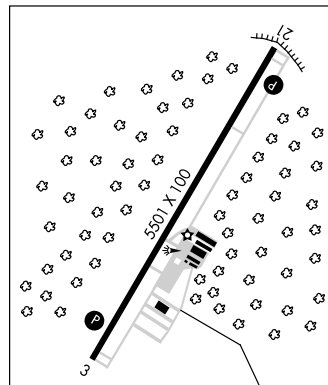
GCO 130.70 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.**GREENSBORO (H) VORTAC** 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 173° 23.8 NM to fld. 879/03W. HIWAS.

CITY LAKE NDB (MHW) 266 CQJ N35°42.98' W79°51.92'

209° 4 NM to fld. NOTAM FILE HBI.

CHARLOTTEH-9B, 12G, L-25E, 36F
IAP**ASHEE** N36°26.04' W81°19.32' NOTAM FILE GEV.

NDB (MHW/LOM) 410 JU 276° 4.7 NM to Ashe Co.

CINCINNATI

L-25D

ASHEVILLE RGNL (AVL) 9 S UTC-5(-4DT) N35°26.17' W82°32.51'

2165 B S2 FUEL 100LL, JET A OX 3 Class I, ARFF Index B NOTAM FILE AVL

RWY 16-34: H8001X150 (ASPH-GRVD) S-120, D-160, ST-175, DT-260 HIRL CL

RWY 16: MALSR. PAPI(P4L)—GA 3.0° TCH 54'. 0.4% down.

RWY 34: MALSR. TDZL. VASI(V4L)—GA 2.8° TCH 57'. Rgt tfc.

0.9% up.

AIRPORT REMARKS: Attended continuously. PPR for unscheduled air carrier opr with more than 30 passenger seats 0400-1200Z±; call arpt manager 828-684-2226. Rwy 16 touchdown rwy visual range avbl. HIRL preset to off when twr clsd, to increase ints and

ACTIVATE HIRL and MALSR Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: ASOS (828) 681-0131. LLWAS**COMMUNICATIONS:** CTAF 121.1 ATIS 120.2 UNICOM 122.95Ⓡ **APP/DEP CON** 125.8 (340-159°) 124.65 (160-339°) 1130-0400Z±**ATLANTA CENTER APP/DEP CON** 132.625 (0400-1130Z±)**TOWER** 121.1 (1130-0400Z±) **GND CON** 121.9**AIRSPACE:** CLASS C svc 1130-0400Z± ctc **APP CON** other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**SUGARLOAF MOUNTAIN (L) VORTAC** 112.2 SUG Chan 59

N35°24.39' W82°16.12' 280° 13.5 NM to fld.

3970/02W.

BROAD RIVER NDB (HW) 379 BRA N35°16.37' W82°28.26'

344° 10.4 NM to fld. NOTAM FILE AVL. (Unmonitored when twr closed).

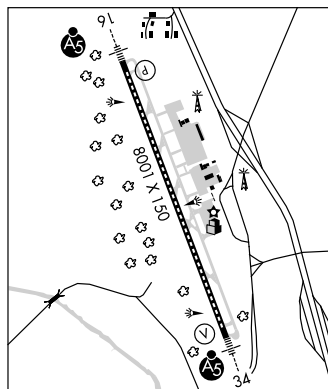
KEANS NDB (LOM) 357 IM N35°31.97' W82°35.25' 163° 6.2 NM to fld.

ILS 110.5 I-AVL Rwy 34. Class IB. (Unmonitored when twr clsd).

ILS 110.9 I-IMO Rwy 16. Class IA. LOM KEANS NDB. (LOC only). ILS not avbl when twr clsd. Localizer unusable byd 20° rgt of course. Localizer unusable within .10 NM from thld.

ASR (1130-0400Z±)

COMM/NAV/WEATHER REMARKS: Communications unavailable blo 6,000' except by RALEIGH RADIO on 122.1R when avbl app con clsd. ASOS wind unreliable when twr closed.

**ATLANTA**H-9B, 12G, L-25C
IAP, AD**AVERY CO/MORRISON FLD** (See SPRUCE PINE)

BARRETTS MOUNTAIN N35°52.13' W81°14.43' NOTAM FILE RDU.
 (L) VOR/DME 110.8 BZM Chan 45 230°10.6 NM to Hickory Rgnl. 1880/06W.
 RC0 122.1R 110.8T (RALEIGH RADIO)

CHARLOTTE

L-25D

BEAUFORT

MICHAEL J. SMITH FLD (MRH) 1 N UTC-5(-4DT) N34°44.01' W76°39.64'

CHARLOTTE

11 B S4 FUEL 100LL, JET A1+ OX 1,2 LRA NOTAM FILE MRH

L-35B

Rwy 08-26: H4249X100 (ASPH) D-60 MIRL

IAP

Rwy 08: Brush. Rwy 26: Trees.

Rwy 03-21: H4191X150 (ASPH) S-12.5 MIRL

Rwy 03: REIL. PAPI(P2L)—GA 3.0°TCH 20'. Thld dspcd 186'. Road.

Rwy 21: REIL. PAPI(P2L)—GA 3.0°TCH 24'. Trees.

Rwy 14-32: H4001X100 (ASPH) S-12.5

Rwy 14: Boat. Rwy 32: Thld dspcd 490'. Trees.

AIRPORT REMARKS: Attended 1300Z†-dusk. For svc after hrs call 252-723-9874 or 252-725-7230. Deer and birds on and in/ovf arpt. Noise abatement procedures in effect. Rwy 08-26 is preferred rwy, wind and safety permitting. Avoid overflight of Beaufort Waterfront. Ctc arpt manager for further info 252-728-1928. ACTIVATE MIRL Rwy 03-21 and Rwy 08-26, PAPI Rwy 03 and Rwy 21, REIL Rwy 03 and Rwy 21—CTAF.

WEATHER DATA SOURCES: ASOS 135.375 (252) 728-2055.

COMMUNICATIONS: CTAF/UNICOM 122.8

® CHERRY POINT APP/DEP CON 124.1 CLNC DEL 125.65

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

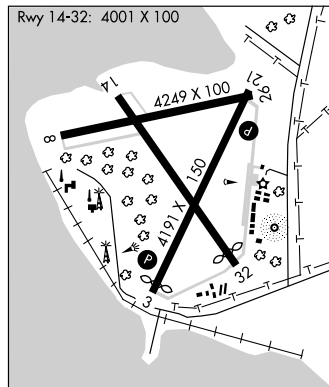
KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26'

W77°33.50' 136° 58.4 NM to fld. 106/05W.

MOREHEAD NDB (MHW) 269 MRH N34°43.87' W76°39.73'

at fld. NOTAM FILE MRH. NDB unmonitored.

ILS 108.5 I-BFO Rwy 26. Localizer only.



BILLY MITCHELL (See HATTERAS)

BLADENBORO (3W6) 0 E UTC-5(-4DT) N34°33.01' W78°46.98'

CHARLOTTE

115 NOTAM FILE RDU

Rwy 02-20: 2850X135 (TURF)

Rwy 02: Trees. Rwy 20: Trees.

AIRPORT REMARKS: Unattended.

COMMUNICATIONS: CTAF 122.9

BOGUE MCALEF (NJM) MC 4 E UTC-5(-4DT) N34°41.43' W77°01.78'

CHARLOTTE

21 B TPA—See Remarks NOTAM FILE RDU Not insp.

L-35B

RWY 05-23: 3997X96 (PSP) S-57, T-150, ST-175 HIRL CL

DIAP

RWY 05: MALSF. OLS. TDZL. RWY 23: MALSF. OLS. TDZL.

ARRESTING GEAR/SYSTEM

RWY 05 M21(B) (660')

M21(B) (652') RWY 23

MILITARY SERVICE: LGT Rwy 05 and 23 apch lgt NSTD. Apch lgt have 10 bars 100 ft apart, first 5 bars have strobe lgt in center. **A-GEAR** All non-emerg full stop lgt by tail hook acft are arrested and rqr Ldg Signal Officer (LSO). LSO avbl with 24 hr notice. **FUEL J5 FLUID SP TRAN ALERT** No hangar, acft svc or tran maintenance avbl. Hot refueling rqr qualified crew member present to assist.

MILITARY REMARKS: Opr hrs published by 2nd Marine Air Wing. Ctc Air OPS req schedule/usage DSN 582-0674, C252-466-0674. See FLIP AP/1 Supplementary Arpt Remarks. **CAUTION** All rwy and twy sfc consist of AM-2 aluminum matting coated with non-skid all wx sfc, braking action good, runway condition reading 19-25. **TFC PAT** Left t/c Rwy 05, TPA-1000(979) 1½ NM abeam and outside White Oak Elementary School, Rwy 23 1000(979) 1½ NM abeam. **MISC** Vertical tkf of AV8 acft from Confined Area Landing (CAL) sites located 800' SE of apch end Rwy 23.

COMMUNICATIONS: SFA CTAF 126.45① **CHERRY POINT APP/DEP CON** 119.35 377.175 (W) 124.1 268.7 (E)

TOWER 126.45 256.875 (opr hrs published by 2nd Marine Air Wing, ctc Air Ops request schedule/usage DSN 582-0674 C252-466-0674) **GND CON** 262.6 **CLNC DEL** 262.6 **GCA** 328.4

PMSV METRO 344.6 (Radar wx advisory svc less than continuous, by special req.)

AIRSPACE: CLASS D svc opr hrs published by 2nd Marine Air Wing, ctc Air Ops request schedule/usage DSN 582-0674 C252-466-0674 other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.**CHERRY POINT MCAS (L) TACAN** Chan 75 NKT (112.8) N34°54.13' W76°52.49' 220° 14.8 NM to fld. 28/9W.

COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima. Radar svc avbl by PPR only, during scheduled fld hrs, ctc twr DSN 582-0697, C252-466-0697 for PPR.

BOONE TNB N36°11.93' W81°39.09'/3038.

CHARLOTTE

AWOS-3 118.525 (828) 268-8921

L-25C

BROAD RIVER N35°16.37' W82°28.26' NOTAM FILE AVL.

ATLANTA

NDB (HW) 379 BRA 344° 10.4 NM to Asheville Rgnl.

L-25C

BRUNSWICK CO (See OAK ISLAND)**BURLINGTON-ALAMANCE RGNL** (BUY) 3 SW UTC-5(-4DT) N36°02.91' W79°28.49'

CINCINNATI

617 B S4 FUEL 100LL, JET A1+ OX3 NOTAM FILE BUY

L-25E, 36F

RWY 06-24: H4999X99 (ASPH) S-30, D-36, DT-57 HIRL 0.6% up SW

IAP

RWY 06: REIL. PAPI(P4L)—GA 3.0° TCH 45'. Trees.

RWY 24: REIL. PAPI(P2L)—GA 3.0° TCH 27'. Trees.

AIRPORT REMARKS: Attended 1300-0100Z†. CLOSED Christmas day. After hrs fuel or emergency only 919-667-3293. PAEW SE Rwy 06-24 SR-SS Mon-Fri; crane located SE Rwy 24. Deer and water-fowl invov arpt. Rwy 06, 15' drop off 50' fm thld 220' left of centerline. PAPI Rwy 06 and Rwy 24 opr continuously. **ACTIVATE** REIL Rwy 06 and Rwy 24—CTAF. HIRL Rwy 06-24 on dusk-dawn, to change ints—CTAF.

WEATHER DATA SOURCES: ASOS 135.325 (336)570-9813.**COMMUNICATIONS:** CTAF/UNICOM 122.975

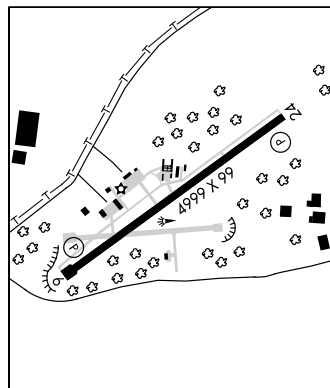
RCO 122.1R 116.2T (RALEIGH RADIO)

① **GREENSBORO APP/DEP CON** 118.5 **CLNC DEL** 120.25**RADIO AIDS TO NAVIGATION:** NOTAM FILE BUY.**LIBERTY (L) VORTAC** 113.0 **LIB** Chan 77 N35°48.70'

W79°36.76' 028° 15.7 NM to fld. 830/03W. NOTAM FILE RDU.

HIMUN NDB(MHW/LOM) 361 **HB** N35°58.69' W79°35.08'

044° 6.8 NM to fld. NOTAM FILE BUY.

ILS 111.35 **I-HBJ** Rwy 06. **LOM HIMUN NDB.** Unmonitored.**CAMP** N34°16.31' W78°42.84' NOTAM FILE RDU.

CHARLOTTE

NDB (MHW) 227 **CPC** at Columbus Co Muni.

L-35A

Unmonitored Mon-Sat 2300-1300Z† and Sun 2300-1400Z†.

CHARLOTTE**CHARLOTTE/DOUGLAS INTL** (CLT) 4 W UTC-5(-4DT) N35°12.82' W80°56.94'

748 B S4 FUEL 100LL, JET A OX 1 LRA Class I, ARFF Index D

CHARLOTTE
H-9B, 12G, L-25D, 36E
IAP, AD

NOTAM FILE CLT

RWY 18C-36C: H10000X150 (CONC-WC) S-140, D-200, ST-175, DT-350, DDT-650 HIRL CL**RWY 18C:** MALSR. PAPI(P4R)—GA 3.0° TCH 69'. Road. 0.6% down.**RWY 36C:** ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 72'. 0.4% up.**RWY 18R-36L:** H9000X150 (CONC-GRVD) S-140, D-200, DT-175, DDT-350 HIRL**RWY 18R:** ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 46'.**RWY 36L:** ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 55'.**RWY 18L-36R:** H8676X150 (ASPH-CONC-GRVD) S-140, D-200, ST-175, DT-350, DDT-650 HIRL CL**RWY 18L:** REIL. VASI(V6R)—Upper GA 3.25° TCH 90.9'. Lower GA 2.75° TCH 52.4'. Railroad.**RWY 36R:** ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 71'. 0.3% up.**RWY 05-23:** H7502X150 (ASPH-CONC-GRVD) S-200, D-350, ST-175, DT-650 HIRL 0.5% up NE**RWY 05:** MALSR. PAPI(P4L)—GA 3.0° TCH 89'. Trees.**RWY 23:** REIL. VASI(V4R)—Upper GA 3.25° TCH 93.7'. Lower GA 3.0° TCH 55.8'.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 05:** TORA-7502 TODA-7502 ASDA-7092 LDA-7092**RWY 18L:** TORA-8676 TODA-8676 ASDA-8676 LDA-8676**RWY 18C:** TORA-10000 TODA-10000 ASDA-10000 LDA-10000**RWY 18R:** TORA-9000 TODA-9000 ASDA-9000 LDA-9000**RWY 23:** TORA-7502 TODA-7502 ASDA-7502 LDA-7502**RWY 36L:** TORA-9000 TODA-9000 ASDA-9000 LDA-9000**RWY 36C:** TORA-10000 TODA-10000 ASDA-10000 LDA-10000**RWY 36R:** TORA-8676 TODA-8676 ASDA-8676 LDA-8676**ARRESTING GEAR/SYSTEM****RWY 36R:** EMAS

AIRPORT REMARKS: Attended continuously. Be alert for flocks of migratory birds on and in/ovf arpt. Noise abatement procedure in effect 0400-1200Z; land Rwy 05 takeoff Rwy 23. Twy E13 closed indef. Rwy 18L touchdown, midfield and rollout runway visual range avbl. Rwy 36R touchdown, midfield and rollout runway visual range avbl. Rwy 18C touchdown, midfield, rollout runway visual range avbl. Rwy 36C touchdown, midfield and rollout runway visual range avbl. Rwy 18R-36L touchdown avbl. ASDE-X surveillance system in use; Pilots should opr transponders with mode C on all twys and rwys. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Noise Abatement Procedures and Continuous Power Facilities.

WEATHER DATA SOURCES: ASOS (704)359-0235. HIWAS 115.0 CLT. LLWAS. TDWR.**COMMUNICATIONS:** D-ATIS ARR 121.15 D-ATIS DEP 132.1 UNICOM 122.95**CHARLOTTE RCO 122.4 (RALEIGH RADIO)**

Ⓡ **CHARLOTTE APP/DEP CON** 134.75 (246°-360° 8000' and blo) 128.32 (001°-119° 8000' and blo) 120.05 (120°-245° 8000' and blo) 124.0 (075°-245° abv 8000') 120.5 (246°-074° abv 8000')

CHARLOTTE TOWER 118.1 (Rwys 18L-36R and 05-23) 126.4 (Rwy 18C-36C) 133.35 (Rwys 18R and 36L)**GND CON** 121.9 (360°-179°) 121.8 (180°-359°) **CLNC DEL** 127.15**AIRSPACE:** CLASS B See VFR Terminal Area Chart.**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT.(L) **VORW/DME** 115.0 CLT Chan 97 N35°11.42' W80°57.11' 022° 1.5 NM to fld. 732/05W. **HIWAS.**

DME unusable:

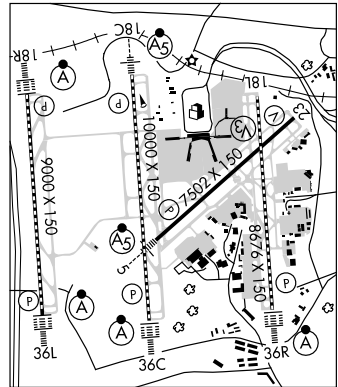
015°-050° byd 25 NM blo 3000'.

050°-100° byd 25 NM blo 2500'.

270°-350° byd 20 NM blo 5000'.

FT MILL (L) VORTAC 112.4 FML Chan 71 N34°59.34' W80°57.29' 004° 13.5 NM to fld. 645/02W.

NOTAM FILE AND. SHUTDOWN.

TRYON NDB (LOM) 242 CL N35°09.49' W81°01.24' 056° 5.1 NM to fld.**ILS** 110.95 I-CLT Rwy 05. Class IE. LOM TRYON NDB.**ILS** 111.3 I-PEP Rwy 18C. Class IA.**ILS** 110.35 I-VKQ Rwy 18L. LOC unusable byd 25° left and right of course.**ILS/DME** 109.5 I-APU Chan 32 Rwy 23. GS unusable blo 1100' MSL.**ILS** 111.7 I-DQG Rwy 36C. Class IIID. LOC unusable throughout zone 5 due to structure at .56 NM.**ILS/DME** 108.9 I-BQC Chan 26 Rwy 36R. Class IIIE.**ILS/DME** 110.15 I-RGS Chan 38(Y) Rwy 18R.**ILS/DME** 110.15 I-XUU Chan 38(Y) Rwy 36L.

WILGROVE AIR PARK (8A6) 9 E UTC-5(-4DT) N34°12.83' W80°40.20'
CHARLOTTE799 B **FUEL** 100LL NOTAM FILE RDU**RWY 17-35:** H2835X40 (ASPH) S-10 LIRL (NSTD)**RWY 17:** Thld dsplcd 100'. Trees.**RWY 35:** Thld dsplcd 525'. Trees.**AIRPORT REMARKS:** Attended 1300Z±-dusk. Arpt CLOSED to pure jet powered acft. Tall steel tower 2 miles from thld Rwy 17 approximately 6000' right of centerline. 50 ft trees within 80 ft of centerline both sides of rwy.

Numerous obstructions within 60 ft from centerline 15 ft-40 ft in height. Deer invof arpt. Rwy 35 dsplcd thld marked for day ops with three cones each side of rwy. Rwy 17-35 NSTD LIRL, no thld lgts. Rotating bcn ops dusk-0600Z±. LIRL Rwy 17-35 opr dusk-0600Z±. ACTIVATE NSTD LIRL Rwy 17-35-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.725**CHARLOTTE-MONROE EXECUTIVE** (See MONROE)**CHERRY POINT MCAS** (CUNNINGHAM FLD) (NKT)(KNKT) MC 2 NE UTC-5(-4DT)**CHARLOTTE****H-9C, L-35B****DIAP, AD**

N34°54.19' W76°52.85'

29 B Class I, ARFF Index Ltd. NOTAM FILE RDU Not insp.

RWY 14L-32R: H8984X200 (ASPH) PCN 52 R/B/W/T HIRL**RWY 05L-23R:** H8491X200 (ASPH) PCN 62 R/B/W/T HIRL**RWY 05L:** Thld dsplcd 938'.**RWY 23R:** MALSf. PAPI(P4L)—GA 3.0° TCH 54'.**RWY 14R-32L:** H8399X200 (ASPH) PCN 52 R/B/W/T HIRL CL**RWY 14R:** Thld dsplcd 846'.**RWY 32L:** ALSf1. PAPI(P4L)—GA 3.0° TCH 76'.**RWY 05R-23L:** H8188X200 (ASPH) PCN 55 R/B/W/T HIRL**RUNWAY DECLARED DISTANCE INFORMATION****RWY 05L:** TORA-8491 TODA-8491 ASDA-8491 LDA-8491**RWY 14R:** TORA-8399 TODA-8399 ASDA-8399 LDA-7553**RWY 23R:** TORA-7553 TODA-8491 ASDA-8491 LDA-7553**RWY 32L:** TORA-8399 TODA-8399 ASDA-8399 LDA-7553**ARRESTING GEAR/SYSTEM****RWY 05R** HOOK E28(B) (1500')**RWY 14L** ← HOOK E28(B) (1500')HOOK E28(B) (1500') → **RWY 32L**HOOK E28(B) (1500') **RWY 23R****MILITARY SERVICE:** LGT Portable lgt—mobile flood lgt. **A-GEAR** All E-28(B) in raised position except on ldg rwy. Rqr 15 minutes prior notice. **JASU** 2(GTC-85) 1(NCPP-105). 2 working days prior notice rqr. **FUEL** J5. Hot pit refuel avbl. **FLUID** SP PRESAIR HPOX LOX **TRAN ALERT** Limited tran maintenance avbl Mon-Fri 1200-2100Z±. Transient acft with inert ordnance, hot pit refuel limited to F18 and USAF F15, F16 and A10 acft only. Hot pit refuel with inert ordnance avbl Mon-Fri 1200-0300Z±, Sat-Sun 1700-0059Z±. No lavatory svc avbl.**MILITARY REMARKS:** Opr 24 hrs expect; fld closure on National holiday weekends. See FLIP AP/1 Supplementary Arpt Remarks. **RSTD** ATC terminology "centermat" is defined as the center of the afld where the four rws intersect. Rwy 23R LDA 7553, Rwy 32L LDA 7607. PPR all tran acft (min 24 hr in advance). Call Base OPS DSN 582-2233, C252-466-2233. Flight Planning/Base OPS opr 24 hr. All rwy and twy, except Twy A, Twy C and Twy M will support all acft at all weight. Twy H limited to helicopters only between fuel pit 5 and Twy J. Acft rstd from taxiing on Twy K between Rwy 23R and Test Cell. Towing ops only. **CAUTION** Unlit twr at NKT 200006 549'. Extensive student jet training vertical and short take-off and landing aircraft vicinity of arpt. Tran acft expect straight-in full stop ldg only during peak student training periods. Bird hazard Oct-Apr. Drainage ditches parallel all rwy. Wildlife hazard on arpt, especially SS-SR. Obstruction approximately 200' near NKT R-205/3. **TFC PAT** Ldg/taxi lgt rqr all ldg. Reduced rwy separation in effect for USN/USMC acft. **CSTMS/AG/IMG** CSTMS, AG avbl with 24 hr prior notice. Reference Foreign Clearance Guide for details. **MISC** 24 hr prior notice rqr of all distinguished visitor codes, ctc Base OPS DSN 582-2233, C252-466-2233. All acft with passenger/cargo/distinguished visitor ctc PTD 20 min prior to ldg.**COMMUNICATIONS:** SFA ATIS 127.475 244.875**(R) APP/DEP CON** 119.35 377.175 (West) 124.1 268.7 (East abv 2600') 132.575 299.6 (East at/blo 2600') 119.75 360.775 (North)**TOWER** 121.3 340.2 360.2 (Expect fld closure on National holiday weekends) **GND CON** 128.625 239.025**CLNC DEL** 125.95 316.125 **PMSV METRO** 343.5 **BASE OPS** 126.2 305.7**AIRSPACE:** CLASS D svc continuous, expect fld closure on National holiday weekends.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**(L) TACAN** Chan 75 NKT (112.8) N34°54.13' W76°52.49' at fld. 28/9W.

TACAN azimuth unusable:

052°-060° byd 10 NM blo 3,000'

061°-089° byd 6 NM blo 5,000'

090°-109° byd 10 NM blo 3,000'

ILS/DME 108.9 I-NKT Chan 26 Rwy 23R. GS unusable byd 6° left of course.**ASR/PAR****COMM/NAV/WEATHER REMARKS:** Radar see Terminal FLIP for Radar Minima.

CHOCOWINITY N35°30.58' W77°06.40' NOTAM FILE OCW.

NDB (MHW) 388 RNW 044° 4.6 NM to Warren Fld.

CHARLOTTE

L-35C

CITY LAKE N35°42.98' W79°51.92' NOTAM FILE HBI.

NDB (MHW) 266 CQJ 209° 4 NM to Asheboro Rgnl.

CHARLOTTE

L-25E, 36F

CLINTON N34°58.53' W78°21.78' NOTAM FILE CTZ.

NDB (MHW) 412 CTZ at Sampson Co.

CHARLOTTE

L-35B, 36F

CLINTON**SAMPSON CO** (CTZ) 2 SW UTC-5(-4DT) N34°58.50' W78°21.94'

148 B S4 FUEL 100LL, JET A1+ NOTAM FILE CTZ

RWY 06-24: H5000X75 (ASPH) S-26 MIRL 0.3% up NE

RWY 06: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Trees.

RWY 24: REIL. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1330Z±-dusk, Sun

1800Z±-dusk. For arpt attendant after hrs call 910-214-6019.

Rwys 06 and 24 have a 40' dropoff 200' from both thlds on

extended centerline. 50' trees 300' from CL penetrate transitional

sfc NW side of rwy from Rwy 24 apch sfc to Rwy 06 thld. ACTIVATE

MIRL Rwy 06-24, REIL Rwy 06 and Rwy 24 and PAPI Rwy

06—CTAF. Rwy 06 PAPI OTS indef.

WEATHER DATA SOURCES: AWOS-3 119.125 (910) 592-7488.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ FAYETTEVILLE APP/DEP CON 133.0

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13'

W78°52.50' 095° 25.1 NM to fld. 179/04W.

CLINTON NDB (MHW) 412 CTZ N34°58.53' W78°21.78' at

fld. NOTAM FILE CTZ.

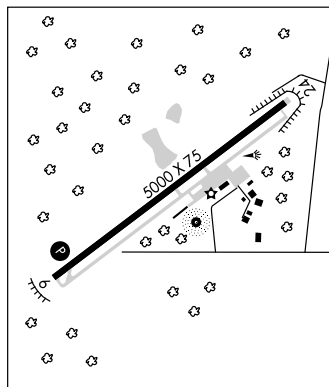
ILS 109.7 I-SGO Rwy 06. LOC only. Localizer unusable

inside 1.2 NM from thld and byd 25° rgt of centerline.

CHARLOTTE

H-9C, 12G, L-35B, 36F

IAP

**COASTAL CAROLINA RGNL** (See NEW BERN)**COFIELD** N36°22.37' W76°52.29' NOTAM FILE RDU.

(L) VORTAC 114.6 CVI Chan 93 262° 15.3 to Tri-County. 70/09W.

RCO 122.1R 114.6T (RALEIGH RADIO)

CHARLOTTE

H-9C, L-35C, 36H

COLUMBUS CO MUNI (See WHITEVILLE)**CONCORD RGNL** (JQF) 7 W UTC-5(-4DT) N35°23.27' W80°42.55'

705 B S4 FUEL 100LL, JET A, A1+ OX 3 ARFF Index—See Remarks

NOTAM FILE JQF

RWY 02-20: H7400X100 (ASPH) D-72 HIRL 0.9% up N

RWY 02: REIL. PAPI(P4L)—GA 3.0° TCH 60'. Trees.

RWY 20: MALSR. PAPI(P4L)—GA 3.0° TCH 44'. Thld dspcd 650'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 02: TORA-7400 TODA-7400 ASDA-7400 LDA-7400

RWY 20: TORA-7400 TODA-7400 ASDA-7000 LDA-6350

AIRPORT REMARKS: Attended continuously. Class IV, ARFF Index A. Index C ARFF equipment avbl upon req. When twr

clsd HIRL Rwy 02-20 and REIL Rwy 20 preset low ints. ACTIVATE MALSR Rwy 20—CTAF.

WEATHER DATA SOURCES: AWOS-3 133.675 (704) 785-2145.**COMMUNICATIONS:** CTAF 134.65 UNICOM 122.95

Ⓡ CHARLOTTE APP/DEP CON 128.32 CLNC DEL 127.25

TOWER 134.65 (1200-0400Z±) GND CON 121.85 CLNC DEL 118.55

AIRSPACE: CLASS D svc 1200-0400Z± other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11' 050° 16.8 NM to fld. 732/05W.

HIWAS.

ILS/DME 111.95 I-JQF Chan 56(Y) Rwy 20. LOC unusable byd 30° right of centerline. Unmonitored.

CHARLOTTE

H-9B, 12G, L-25D, 36E

IAP, AD

CUNNINGHAM FLD (See CHERRY POINT MCAS)

CURRITUCK CO RGNL (ONX) 4 S UTC-5(-4DT) N36°24.00' W76°00.93'

18 B S2 FUEL 100LL, JET A1+ TPA-818(800) NOTAM FILE ONX

Rwy 05-23: H5500X150 (ASPH-CONC) S-20, D-35 MIRL

Rwy 05: REIL. PAPI(P2L)—GA 3.0° TCH 24'.

Rwy 23: REIL. PAPI(P2L)—GA 3.0° TCH 41'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z, Sat-Sun 1300-2000Z. CLOSED on all state holidays. After hrs svc call 252-232-3330. Currituck County emergency number communication center 252-232-2216. Fuel avbl 24 hrs with credit card. Birds and deer on and invof arpt. Hang glider activity SR-SS. ACTIVATE MIRL Rwy 05-23 and PAPI Rwy 05 and Rwy 23 and REIL Rwy 05 and Rwy 23 after SS-CTAF. PAPI Rwy 05 and Rwy 23 opr continuously during daylight hrs.

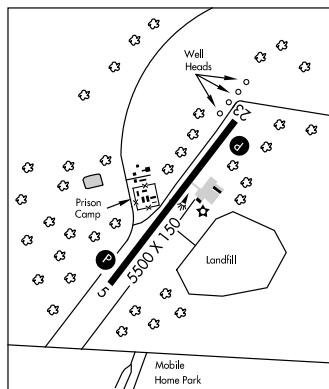
WEATHER DATA SOURCES: AWOS-3 119.775 (252) 453-8939.

COMMUNICATIONS: CTAF 122.9

® OCEANA APP/DEP CON 123.9

RADIO AIDS TO NAVIGATION: NOTAM FILE ECG.

ELIZABETH CITY (L) VOR/DME 112.5 ECG Chan 72 N36°15.46' W76°10.54' 049° 11.5 NM to fld. 10/07W. HIWAS.



WASHINGTON

H-9C, 12H, L-35D

IAP

CURTIS L BROWN JR FIELD (See ELIZABETHTOWN)

DARE CO RGNL (See MANTEO)

DAVIDSON CO (See LEXINGTON)

DIXON N34°34.11' W77°27.18' NOTAM FILE RDU.

NDB/DME (HHW) 198 DIW Chan 107 015° 8 NM to New River MCAS. DME portion unusable
byd 40 NM blo 16,500'.

CHARLOTTE

H-9C, L-35B

DONALD'S AIR PARK INC (See PLYMOUTH)

DOONE N34°54.75' W78°56.38' NOTAM FILE FAY.

NDB (LOM) 367 GR 039° 5.6 NM to Fayetteville Rgnl/Grannis Fld.

CHARLOTTE

DS BUTLER FARM AND AIRFIELD (See OAKRIDGE)

DUPLIN CO (See KENANSVILLE)

EAGLES NEST (See POTTERS HILL)

EDEN

ROCKINGHAM CO HELIPORT (8NØ) 0 N UTC-5(-4DT) N36°29.64' W79°44.39'

CINCINNATI

605 B NOTAM FILE RDU

HELIPAD H1: H60X60 (CONC)

HELIPAD H1: VASI(NSTD)—TCH 7'.

HELIPORT REMARKS: Unattended. Numerous +30' light poles in parking lot. +30' antenna on top of hospital (100' AGL) 300' NE of pad. Parking area NW of Idg pad; +4' perimeter fence within 13' of heliport-SW corner. Rotating bcn located on hospital roof 300' NE of Idg pad. Helipad H1 25' p-line 200' W of helipad. ACTIVATE perimeter lgts and VASI Rwy H1-CTAF. LDIN lgts opr dusk-dawn.

COMMUNICATIONS: CTAF/UNICOM 123.05

EDENTON N36°01.53' W76°33.99' NOTAM FILE EDE.

NDB (MHW) 265 EDE at Northeastern Rgnl. NDB unusable byd 15 NM.

WASHINGTON

L-35C

EDENTON**NORTHEASTERN RGNL** (EDE) 3 SE UTC-5(-4DT) N36°01.66' W76°34.03'

20 B S4 FUEL 100LL, JET A1+ NOTAM FILE EDE

RWY 01-19: H6000X100 (ASPH) S-60, D-80 MIRL

RWY 01: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Trees.

RWY 19: REIL. PAPI(P2L)—GA 3.0° TCH 41'. Trees.

AIRPORT REMARKS: Attended 1300-2200Z+. For after hrs svc call 252-217-4975. After hr self svc fuel for 100LL and JET A1+ avbl with credit card. Seasonal problem with birds and deer on and invof arpt. Twys serving Rwy 01-19 have green centerline reflectors. PAPI Rwy 01 and 19 ops continuously. ACTIVATE MIRL Rwy 01-19 and REIL Rwy 01 and Rwy 19—CTAF.

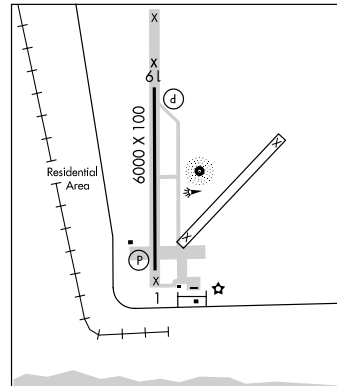
WEATHER DATA SOURCES: AWOS-3 121.125 (252) 482-0757.**COMMUNICATIONS:** CTAF/UNICOM 123.0**WASHINGTON CENTER APP/DEP CON** 123.85**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**COFIELD (L) VORTAC** 114.6 CVI Chan 93 N36°22.37'

W76°52.29' 153° 25.4 NM to fld. 70/09W.

EDENTON NDB (MHW) 265 EDE N36°01.53' W76°33.99' at fld. NOTAM FILE EDE. NDB unusable byd 15 NM.

ILS/DME 110.95 I-EDE Chan 46(Y) Rwy 19.

WASHINGTON
H-9C, 12H, L-35C
IAP



ELIZABETH CITY CG AIR STATION/RGNL (ECG) 3 SE UTC-5(-4DT)

WASHINGTON

H-9C, 12H, L-35D

IAP, AD

N36°15.63' W76°10.47'

12 B S4 FUEL 100LL, JET A1+ TPA—See Remarks NOTAM FILE ECG

RWY 10-28: H7219X150 (CONC) S-100, D-200, ST-175, TT-400

HIRL CL

RWY 10: TDZL. REIL. PAPI(P2L)—GA 3.0° TCH 49'. Road. Rgt tfc.

RWY 28: REIL. PAPI(P2L)—GA 3.0° TCH 51'. Tree.

RWY 01-19: H4518X150 (ASPH-CONC) S-20 MIRL

RWY 01: VASI(V4L)—GA 2.75° TCH 31'. Thld dsplcd 299'.

Road. Rgt tfc.

RWY 19: VASI(V4L)—GA 2.75° TCH 28'. Rgt tfc.

AIRPORT REMARKS: Attended Mon-Fri 1300-0200Z†, Sat-Sun 1300-2200Z†. Terminal CLOSED Christmas Day and New Years Day. Twr attended 1300-0200Z†. Civ ramp attended Mon-Fri 1300-0200Z†, Sat-Sun 1300-2200Z†. For civ attendant after hrs and holidays call 252-335-5634 during hrs attended. CG ramp attended 24 hrs, ctc 252-335-6333. CG Aviation Logistic Center ramp attended 1200-2000Z†. Twr and Civ ramp attended 1200-0300Z†. See FLIP AP/1 supplementary Arpt Info. Fuel 24 hr self svc with credit card. Heavy bird activity invof arpt. Intermittent tethered balloon ops 3 NM SE dalgt hrs at 3000 ft. Rwy 01-19 and Twy G west of the civil ramp CLOSED to all ops over 12,500 lbs. Vertical tkf and landing only for copters over 12,500 lbs. Rwy 01-19 loose gravel, pavement cracks, vegetation. Acft with tail heights to 50' parked on apron first 2000' from Rwy 28 right side 250' from rwy centerline. TPA—Fixed Wing 1512(1500), Rotary Wing 1012(1000). All DOD turbojet acft must obtain prior permission from air station ops prior to requesting arpt familiarization apchs. SP LHGX OIL: 0-133-156 Tran Alert—No tran maintenance, ltd svc, expect up to 4 hr delay for fuel. Tran air carrier must remain with acft to provide directions/assistance in servicing. All DOD turbojet acft full stop lds only, practice apchs and touch and go lds prohibited. PPR for parking and svcs on Coast Guard Ramp and Aviation Logistic Center (ALC) ramp. Coast Guard complex has numerous buildings within the building restriction lines. Compass rose for Coast Guard use only. Noise Abatement in effect: call afld management for details at 252-335-6333. Blimp opr and training site 3 NM southeast of fld—flight opr conducted in surrounding area. Seasonal low-flying agricultural acft based in the local area. No line-of-sight between rwy ends. Search and Rescue may rqr 24 hr twr staff 0200-1300Z†, trans intentions in the blind on 120.5. Facilities and connector twys north of Rwy 10-28 restricted to official CG business, PPR for entry. Twy pavement rough. All acft destined for CG Air Station ctc Elizabeth City air on 345.0, 10 min prior to ldg. All acft destined for CG ALC ctc Ft Ops 123.1. When twr is cldsd centerline lgts and VASI Rwy 10 and Rwy 28 opr continuously. ACTIVATE HIRL Rwy 10-28 and MIRL Rwy 01-19 —CTAF.

WEATHER DATA SOURCES: ASOS 118.525 (252) 338-4750. HIWAS 112.5 ECG.**COMMUNICATIONS:** CTAF 120.5 UNICOM 122.95

RCO 122.2 122.05R 112.5T (RALEIGH RADIO)

® NORFOLK APP/DEP CON 119.55

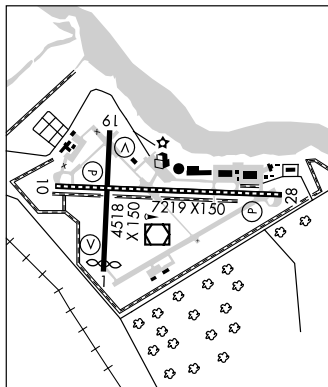
TOWER 120.5 (1300-0200Z†) GND CON 121.9

AIRSPACE: CLASS D svc 1300-0200Z† other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE ECG.

(L) VOR/DME 112.5 ECG Chan 72 N36°15.46' W76°10.54' at fld. 10/07W. HIWAS.

WOODVILLE NDB (MHW) 254 LLW N36°15.78' W76°17.88' 101° 6 NM to fld.

ILS/DME 111.35 I-EPR Chan 50(Y) Rwy 10. Class IE.

COMM/NAV/WEATHER REMARKS: 24 hr search and rescue acft ops may rqr twr to be staffed 0300-1200Z†, transmit intentions in the blind on 120.5.

ELIZABETHTOWN**CURTIS L BROWN JR FIELD** (EYF) 2 SE UTC-5(-4DT) N34°36.11' W78°34.76'CHARLOTTE
L-35A, 36F
IAP

132 B S2 FUEL 100LL, JET A1+ NOTAM FILE RDU

RWY 15-33: H4998X75 (ASPH) S-30, D-45 MIRL

RWY 15: PAPI(P2L)—GA 4.2° TCH 45'.

RWY 33: REIL: PAPI(P2L)—GA 3.0° TCH 33'.

AIRPORT REMARKS: Attended Mon-Sat 1300-2330Z, Sun 1330-2330Z. For svc after hrs and emergencies call 910-862-8928. Fuel avbl 24 hrs with credit card. Deer on and in/ovf arpt. Birds on and in/ovf arpt spring and fall. Low level military activity in/ovf arpt. Arpt bcn is obscured by trees to the east. ACTIVATE MIRL Rwy 15-33; PAPI Rwy 15 and Rwy 33 and REIL Rwy 33—CTAF.

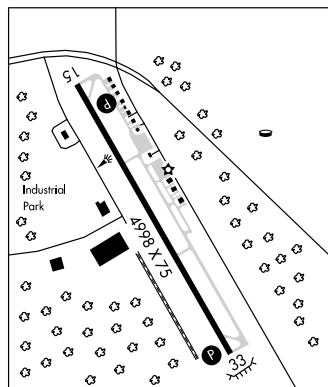
WEATHER DATA SOURCES: AWOS-3 119.475 (910) 862-9982.**COMMUNICATIONS:** CTAF/UNICOM 122.8

FAYETTEVILLE APP/DEP CON 133.0

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 151° 27.2 to fld. 179/04W.

ELIZABETHTOWN NDB (MHW) 398 TGQ N34°31.73' W78°30.96' 332° 5.4 NM to fld. NOTAM FILE RDU.

**ELIZABETHTOWN** N34°31.73' W78°30.96' NOTAM FILE RDU.CHARLOTTE
L-35A

NDB (MHW) 398 TGQ 332° 5.4 NM to Curtis L Brown Jr Fld.

ELKIN MUNI (ZEF) 3 NE UTC-5(-4DT) N36°16.80' W80°47.16'CINCINNATI
L-25D
IAP

1068 B S2 FUEL 100LL, JET A1+ TPA-2068(1000) NOTAM FILE RDU

RWY 07-25: H4003X75 (ASPH) S-25 MIRL 0.7% up W

RWY 07: VASI(V2L)—GA 3.5° TCH 19'. Tree.

RWY 25: REIL: VASI(V2L)—GA 4.5° TCH 66'. Tree.

AIRPORT REMARKS: Attended 1400-2200Z. For svc after hrs call 336-874-7171, 336-874-2931, 336-366-7994 or 336-926-6243. Fuel 24 hr self svc with credit card. Trees and steep terrain within 75' of rwy. Deer on and in/ovf arpt. Rwy 25 has an uphill grade. Rwy 07 and Rwy 25 VASI opr continuously. Rwy 25 VASI unusable by 5° left and right of centerline due to trees. ACTIVATE MIRL Rwy 07-25 and REIL Rwy 25—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.05

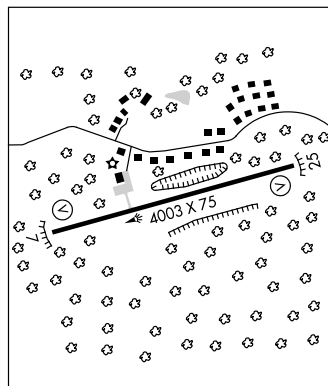
Ⓡ ATLANTA CENTER APP/DEP CON 125.15

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

BARRETT'S MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45

N35°52.13' W81°14.43' 048° 33.1 NM to fld. 1880/06W.

ZEPHYR NDB (MHW) 326 ZEF N36°18.79' W80°43.40' 242° 3.6 NM to fld.

**ELLAS** N34°45.03' W77°42.27' NOTAM FILE OAJ.

CHARLOTTE

NDB (LOM) 261 OA 052° 6.6 NM to Albert J. Ellis. Unmonitored.

ENGELHARD**HYDE CO** (7W6) 6 N UTC-5(-4DT) N35°33.74' W75°57.31'CHARLOTTE
L-35C

8 B NOTAM FILE RDU

RWY 11-29: H4700X100 (ASPH-GRVD) S-30, D-43 MIRL

RWY 11: PAPI(P2L)—GA 3.0° TCH 34'. Rgt tfc.

RWY 29: PAPI(P2L)—GA 3.0° TCH 34'. Trees.

AIRPORT REMARKS: Unattended. R5313 5 miles E of arpt and R5314 5 miles N of arpt have heavy concentrations of military acft within 1000' AGL and in excess of 500 knots, acft maneuvering for ldg and after txf should remain over land E of airport. Deer and birds on and in/ovf arpt. ACTIVATE MIRL Rwy 11-29—CTAF. PAPI Rwy 11 and Rwy 29 on continuously.

COMMUNICATIONS: CTAF/UNICOM 122.7**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 086° 79.0 NM to fld. 106/05W.

ERWIN**HARNETT RGNL JETPORT** (HRJ) 4 NW UTC-5(-4DT) N35°22.81' W78°43.93'

CHARLOTTE

202 B S4 FUEL 100LL, JET A1+ NOTAM FILE HRJ

H-9C, 126, L-35B, 36F

RWY 05-23: H5000X75 (ASPH) S-13 MIRL 0.3% up NE

IAP

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 35'.

RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 35'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z, Sat-Sun

1400-2200Z. For svc after hrs see telephone number posted on

FBO door. Fuel self svc with credit card. Birds on and invof arpt.

Glider activity dalgt hrs; gliders only may use rgt tfc. Gliders use

grass area adjacent Rwy 05-23 for ldg. Ultralight airpark 2 NM

S.E. Heavy amounts ultralight to 1000' MSL mainly weekends

extending into Harnett Rgnl Jetport tfc pattern. Rwy 05, 60' drop

off 350' from thld and Rwy 23, 15' drop off 70' left of centerline.

Arpt located 18 NM NE of Pope AFB; Heavy amounts of military tfc

as low as 500' AGL overhead Harnett Rgnl Jetport. Rotating bcn

obscured by trees N and W of arpt. ACTIVATE MIRL Rwy 05-23

and REIL Rwy 05 and Rwy 23—CTAF. PAPI Rwy 05 and Rwy 23 opr

continuously. REIL Rwy 05 OTS indef. REIL Rwy 23 OTS indef.

WEATHER DATA SOURCES: AWOS-3 119.025 (910) 814-3946.**COMMUNICATIONS:** CTAF/UNICOM 122.7

® FAYETTEVILLE APP/DEP CON 125.175

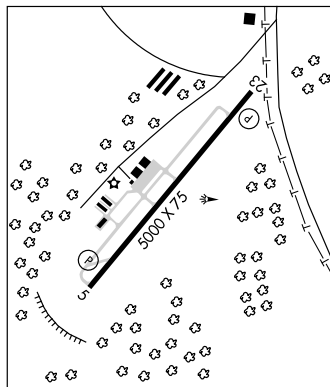
GCO 135.075 (FAYETTEVILLE CLNC and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 021° 24.7 NM to fld. 179/04W.

NDB(MHW) 417 HQT N35°25.99' W78°40.50' 230° 4.2 NM to fld. NOTAM FILE HRJ.

LOC/DME 108.35 I-HRJ Chan 20(Y) Rwy 05.

**FARMVILLE****FLANAGAN FLD** (NØ8) 3 SE UTC-5(-4DT) N35°33.40' W77°33.63'

CHARLOTTE

75 FUEL 100LL NOTAM FILE RDU

RWY 03-21: 2500X100 (TURF)

RWY 03: Trees.

RWY 21: Thld dsplcd 300'. Trees.

AIRPORT REMARKS: Unattended. Glider ops invof arpt. Aerial banner towing and aerial crop spraying invof of arpt.

Livestock and wildlife invof arpt. +4' fence/brush along hwy northeast end Rwy 21. Rwy 21 no dsplcd thld

markings. Rwy 03-21 marked with yellow cones.

COMMUNICATIONS: CTAF 122.9

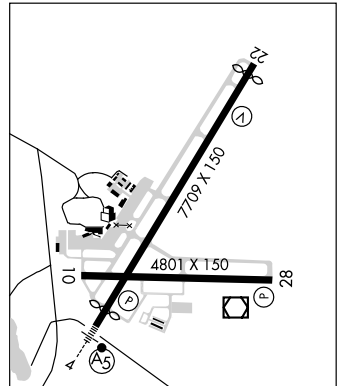
FAYETTEVILLE**FAYETTEVILLE RGNL/GRANNIS FLD** (FAY) 3 S UTC-5(-4DT)

N34°59.47' W78°52.82'

189 B S4 FUEL 100LL, JET A Class I, ARFF Index B NOTAM FILE FAY

RWY 04-22: H7709X150 (ASPH-GRVD) S-100, D-200, ST-175,

DT-350, DDT-750 HIRL 0.3% up SW

RWY 04: MALSR. PAPI (P4R)—GA 3.0° TCH 60'. Thld dspcd 499'.**RWY 22:** REIL. VASI(V4L)—GA 3.0° TCH 60'. Thld dspcd 302'.**RWY 10-28:** H4801X150 (ASPH) S-30, D-55 MIRL**RWY 10:** REIL. Trees.**RWY 28:** REIL. PAPI(P4L)—GA 3.0° TCH 35'. Trees.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 04:** TORA-7712 TODA-7712 ASDA-7006 LDA-6507**RWY 22:** TORA-7712 TODA-7712 ASDA-7213 LDA-6507**AIRPORT REMARKS:** Attended 1100-0500Z†. CLOSED to all military acft over 17,000 lbs for air carrier ramp ops except 24 hr PPR. Call arpt manager 910-433-1160 Mon-Fri. Major power plant repairs avbl for piston engines only.**WEATHER DATA SOURCES:** ASOS (910) 484-1546. LAWRS.**COMMUNICATIONS:** ATIS 121.25 UNICOM 122.95**RCD 122.1R 108.8T** (RALEIGH RADIO)**(R) APP/DEP CON 133.0** (061°-230°) 127.8 (231°-320°) 125.175 (321°-060°)**TOWER 118.3 GND CON 121.7****AIRSPACE:** CLASS C svc continuously ctc APP CON**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAY.**(L) VOR/DME 108.8 FAY** Chan 25 N34°59.13' W78°52.50' at fld. 179/04W.**DOONE NDB (LOM) 367 GR** N34°54.75' W78°56.38' 039° 5.6 NM to fld.**ILS 110.5 I-GRA RWY 04.** Class IB. LOM DOONE NDB. ILS unmonitored when twr clsd. Glideslope unusable byd 3° rgt of course.

CHARLOTTE

H-9C, 12G, L-35A, 36F

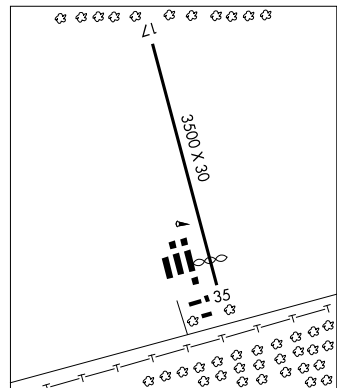
IAP, AD

GRAYS CREEK (2GC) 9S UTC-5(-4DT) N34°53.62' W78°50.61'

160 S4 FUEL 100LL NOTAM FILE RDU

RWY 17-35: H3500X30 (ASPH) S-8 LIRL(NSTD)**RWY 17:** Crops. **RWY 35:** Thld dspcd 350'. Trees.**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†. Weekends by appointment only. 40' unmarked p-line 800' from dspcd thld Rwy 35. Rwy 17-35 NSTD LIRL first 350' Rwy 35 not lgtd. For LIRL Rwy 17-35 call 910-483-4114. Rwy 17-35 lgtd thld relocated 350'; 3150' of Rwy 17-35 usable at ngt. Taxi on the grass apron at a slow speed due to uneven sod surface.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAY.**FAYETTEVILLE (L) VOR/DME 108.8 FAY** Chan 25 N34°59.13'

W78°52.50' 168° 5.7 NM to fld. 179/04W.



CHARLOTTE

L-35A, 36F

FIDDLERS N35°42.61' W81°40.28' NOTAM FILE RDU.**NDB (MHW) 391 FIQ** 031° 7.2 NM to Foothills Rgnl. NDB unusable byd 20 NM. NDB located 41,900' from threshold Rwy 03 and 400' SE of extended centerline.

ATLANTA

L-25C

FIRST FLIGHT (See KILL DEVIL HILLS)**FIRST RIVER** N35°15.16' W81°35.93' NOTAM FILE RDU.**NDB (MHW) 417 SLP** at Shelby-Cleveland Co Rgnl

CHARLOTTE

L-25D

FLANAGAN FLD (See FARMVILLE)**FOOTHILLS RGNL** (See MORGANTON)

FORT BRAGG (See SIMMONS AAF)**FRANKLIN****MACON CO** (1A5) 3 NW UTC-5(-4DT) N35°13.36' W83°25.14'

2020 B S4 FUEL 100LL, JET A1+ TPA-2800(780) NOTAM FILE RDU

RWY 07-25: H4400X75 (ASPH) S-30 MIRL

RWY 07: Trees. RWY 25: Brush. Rgt tfc.

AIRPORT REMARKS: Attended 1300Z†-dusk. Rapidly rising terrain all quadrants. Rwy 07-25 has severe cracks and vegetation through cracks and joints. Rwy 25 has a 15 ft drop off 350 ft from thld left and right. MIRL Rwy 07-25 on dusk-down to incr ints—CTAF. Arpt bcn located 3/4 mile SE of arpt.

WEATHER DATA SOURCES: AWOS-3 118.225 (828) 349-3156.**COMMUNICATIONS:** CTAF/UNICOM 123.05

ATLANTA CENTER APP/DEP CON 134.8

RADIO AIDS TO NAVIGATION: NOTAM FILE MCN.

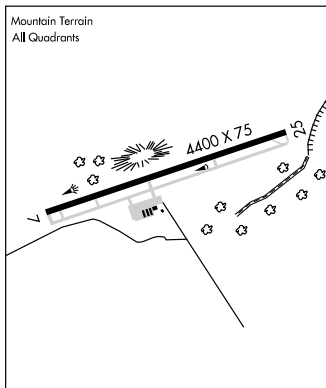
HARRIS (L) VORTACW 109.8 HRS Chan 35 N34°56.58'

W83°54.94' 055° 29.6 NM to fld. 3660/00E. HIWAS.

ATLANTA

L-25B

IAP

**FRANKLIN CO** (See LOUISBURG)**GASTONIA MUNI** (AKH) 4 S UTC-5(-4DT) N35°12.16' W81°08.99'

798 B S4 FUEL 100LL, JET A1 NOTAM FILE AKH

RWY 03-21: H3770X100 (ASPH) S-24 MIRL 0.4% up SW

RWY 03: ODALS. PAPI(P2R)—GA 3.0°TCH 26'. Road.

RWY 21: PAPI(P2L)—GA 3.0°TCH 31'. Thld dsplcd 90'. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z†, Sun 1600-2200Z†. CLOSED Christmas Day. For svc after hrs call 704-460-5619. Deer on and invof arpt. Parallel twy unlgtd. Noise abatement: from 0300-1100Z† pilots are requested to use Rwy 21 as calm wind dep rwy and do runups on ramp; not rwy end. To avoid low altitude turns to the W req clnc thru CLASS B airspace from Charlotte apch. Rwy 03 has 25' p-line 400' from thld left and right of centerline. 15' road 292' from thld left and right of centerline. 50' drop-off 124' from dsplcd thld left and right of centerline. ACTIVATE MIRL Rwy 03-21, ODALS Rwy 03 and PAPI Rwy 03 and PAPI Rwy 21—CTAF.

WEATHER DATA SOURCES: ASOS 135.725 (704) 868-9034.**COMMUNICATIONS:** CTAF/UNICOM 123.0

® CHARLOTTE APP/DEP CON 134.75 CLNC DEL 127.2

RADIO AIDS TO NAVIGATION: NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42'

W80°57.11' 279° 9.8 NM to fld. 732/05W. HIWAS.

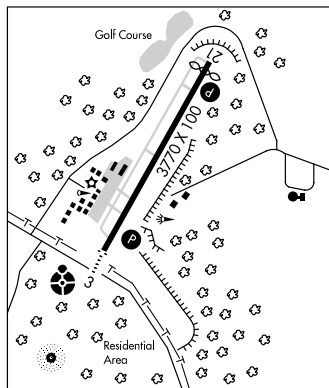
STONIA NDB (MHW) 260 GHJ N35°11.48' W81°09.43' at fld. NOTAM FILE RDU.

COMM/NAV/WEATHER REMARKS: NDB unmonitored 2330-1130Z during standard time, 2330-1030Z during daylight savings time. Clnc Del freq 127.2 OTS indef.

CHARLOTTE

L-25D, 36E

IAP



GOLDSBORO-WAYNE MUNI (GWW) 3 N UTC-5(-4DT) N35°27.63' W77°57.90'

CHARLOTTE

133 B S4 FUEL 100LL, JET A1+ OX 1, 4 NOTAM FILE GWW

H-9C, 12H, L-35B, 36F

RWY 05-23: H5499X99 (ASPH) S-30, D-42 PCN 49 F/C/Y/T MIRL

IAP

RWY 05: PAPI(P4L)—GA 3.0° TCH 40'.

RWY 23: ODALS. REIL. PAPI(P4L)—GA 3.0° TCH 43'.

AIRPORT REMARKS: Attended 1300-0100Z†. Unattended Christmas and Thanksgiving. Bird activity in/ovf arpt. Helicopter ops on twy leading to T hangers. Helipad on twy with traffic cones and flags. Surface variations in rwy safety area. Ultralgt aircraft PPR call 919-734-7630. ACTIVATE MIRL Rwy 05-23, REIL Rwy 23, and ODALS Rwy 23—CTAF; PAPI Rwy 05 and Rwy 23 opr continuously.

WEATHER DATA SOURCES: AWOS-3 118.975 (919) 731-4473.

COMMUNICATIONS: CTAF/UNICOM 122.7

(R) SEYMOUR JOHNSON APP/DEP CON 123.7 (1200-0430Z†)

WASHINGTON CENTER APP/DEP 135.5 (0430-1200Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

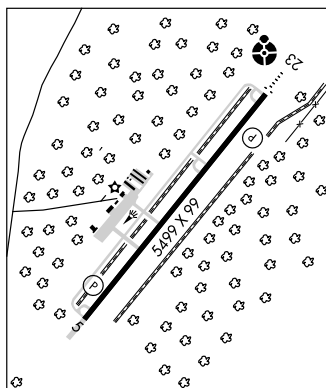
KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26'

W77°33.50' 290° 20.7 NM to fld. 106/05W.

WAYNE NDB (MHW/LOM) 208 JYN N35°31.57' W77°54.02' 227°

5 NM to fld. NOTAM FILE RDU. NDB unmonitored. SHUTDOWN.

ILS 111.9 I-UGZ Rwy 23. Class IB. LOM WAYNE NDB. NDB unmonitored.

**GOOSE CREEK** (See INDIAN TRAIL)**GRAYS CREEK** (See FAYETTEVILLE)**GREENSBORO** N36°02.74' W79°58.58' NOTAM FILE GSO.

CINCINNATI

(H) VORTAC 116.2 GSO Chan 109 034° 3.7 NM to Piedmont Triad Intl.

H-9B, 12G, L-25E, 36F

879/03W. HIWAS.

RCO 123.65 122.2 122.1R 116.2T (RALEIGH RADIO)

GREENSBORO**AIR HARBOR** (W88) 6 N UTC-5(-4DT) N36°10.42' W79°48.18'

CINCINNATI

822 S4 FUEL 100LL NOTAM FILE RDU

RWY 09-27: H2460X65 (ASPH-TURF) S-10 MIRL(NSTD)

RWY 09: Trees.

RWY 27: Trees.

AIRPORT REMARKS: Attended 1300Z†-dusk. Deer on and in/ovf arpt. After hrs emerg call 336-288-8047. Rwy 09-27 north 25' width is asph. South 40' width is turf. Rwy 09-27 NSTD MIRL; edge lgts vary from 40'-70' from pavement south end, 8' from pavement north end. Rwy 09 trees located within 60' of paved edge left side. Rwy 09 has +60' dropoff 220' from thld. Rwy 27 has 8' dropoff 10' from thld, left and right. Rwy-09 ldg uphill. Grvl access road 60' from Rwy 27 end.

COMMUNICATIONS: CTAF/UNICOM 122.8

PIEDMONT TRIAD INTL (GSO) 7 W UTC-5(-4DT) N36°06.08' W79°56.47'

CINCINNATI

926 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class I, ARFF Index C

H-9B, 12G, L-25E, 36F

NOTAM FILE GSO

IAP, AD

RWY 05R-23L: H1000X150 (ASPH-GRVD) S-124, D-170, ST-175, DT-240 HIRL CL

RWY 05R: MALS.R. PAPI(P4R)—GA 3.0° TCH 68'. 0.3% down.

RWY 23L: ALSF2. TDZL. PAPI(P4L).

RWY 05L-23R: H9000X150 (ASPH) S-124, D-170, DT-240 HIRL CL

RWY 05L: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 78'.

RWY 23R: MALS.R. TDZL. PAPI(P4L)—GA 3.0° TCH 69'.

RWY 14-32: H6380X150 (ASPH-PFC) S-123, D-170, ST-175, DT-244 HIRL 0.4% up NW

RWY 32: REIL. VASI(V4L)—GA 3.0° TCH 53'.

LAND AND HOLD SHORT OPERATIONS

| LANDING | HOLD SHORT POINT | DIST AVBL |
|---------|------------------|-----------|
| RWY 14 | 05R-23L | 3450 |
| RWY 23L | 14-32 | 9200 |

RUNWAY DECLARED DISTANCE INFORMATION

| | | | | |
|----------|------------|------------|------------|-----------|
| RWY 05L: | TORA-9000 | TODA-9000 | ASDA-9000 | LDA-9000 |
| RWY 05R: | TORA-10001 | TODA-10001 | ASDA-10001 | LDA-10001 |
| RWY 14: | TORA-6380 | TODA-6380 | ASDA-6380 | LDA-6380 |
| RWY 23L: | TORA-10001 | TODA-10001 | ASDA-9601 | LDA-9601 |
| RWY 23R: | TORA-9000 | TODA-9000 | ASDA-9000 | LDA-9000 |
| RWY 32: | TORA-6380 | TODA-6380 | ASDA-6380 | LDA-6380 |

AIRPORT REMARKS: Attended continuously. Rwy 32 Rwy Visual Range rollout avbl. Aclt with wingspan greater than 171' are restricted from using Twy E. Flight Notification Service (ADCUS) avbl.

WEATHER DATA SOURCES: ASOS (336) 393-0168. **HIWAS** 116.2 GSO. WSP.**COMMUNICATIONS:** D-ATIS 128.55 UNICOM 122.95① **GREENSBORO APP/DEP CON** 124.35 (250°-049°) 118.5 (050°-249°)**TOWER** 119.1 **GND CON** 121.9 **CLNC DEL** 121.75**AIRSPACE:** CLASS C svc continuous ctc **APP CON****RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74' W79°58.58' 030° 3.7 NM to fld. 879/03W. HIWAS.

MARKY NDB (LOM) 254 GS N36°10.02' W80°02.14' 139° 6.0 NM to fld. Unmonitored.

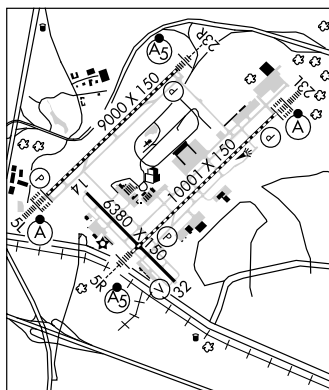
ILS 109.9 I-GSO Rwy 14. LOM MARKY NDB. LOM unmonitored. MM OTS indef.

ILS 109.3 I-HIH Rwy 23L. Class IIE.

ILS/DME 111.9 I-LZY Chan 56 Rwy 05R. Class IA. LOC unusable byd 30° left and right of course.

ILS/DME 109.55 I-LLG Chan 32(Y) Rwy 05L.

ILS/DME 109.55 I-IDB Chan 32(Y) Rwy 23R.

**SOUTHEAST GREENSBORO** (3A4) 8 SE UTC-5(-4DT) N35°56.52' W79°41.13'

CHARLOTTE

737 S4 NOTAM FILE RDU

L-25E, 36F

RWY 17-35: H3063X30 (ASPH) S-8 MIRL

RWY 17: Trees. RWY 35: Trees.

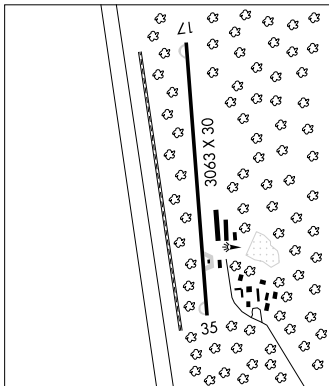
AIRPORT REMARKS: Attended 1200-2200Z. Parachute Jumping.

Practice ldg on Rwy 35 not permitted. Rwy 17 uphill ldg preferred.

Emergency ctc number 336-420-3776. Rwy 17-35 lights OTS indef.

COMMUNICATIONS: CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

LIBERTY (L) VORTAC 113.0 LIB Chan 77 N35°48.70' W79°36.76' 339° 8.6 NM to fld. 830/03W.



GREENVILLE**PITT-GREENVILLE** (PGV) 2 N UTC-5(-4DT) N35°38.12' W77°23.12'

CHARLOTTE

26 B S4 FUEL 100LL, JET A ARFF Index—See Remarks NOTAM FILE PGV

H-9C, 12H, L-35C

RWY 02-20: H6505X150 (ASPH-GRVD) S-40, D-65 HIRL

IAP, AD

RWY 02: REIL. PAPI(P4L)—GA 3.0° TCH 42'. Trees.

RWY 20: MALSR. PAPI(P4L)—GA 3.0° TCH 25'. Thld displcd 350'. Trees.

RWY 08-26: H4997X150 (ASPH) S-40, D-65 MIRL

RWY 08: REIL. PAPI(P4L)—GA 4.0° TCH 42'. Trees.

RWY 26: REIL. PAPI(P4L)—GA 3.0° TCH 31'. Pole.

RWY 15-33: H2687X150 (ASPH) S-40, D-65

RWY 15: Trees.

RWY 33: Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 02: TORA-6505 TODA-6505 ASDA-6505 LDA-6505

RWY 08: TORA-4997 TODA-4997 ASDA-4997 LDA-4997

RWY 15: TORA-2687 TODA-2687 ASDA-2687 LDA-2687

RWY 20: TORA-6505 TODA-6505 ASDA-6505 LDA-6157

RWY 26: TORA-4997 TODA-4997 ASDA-4997 LDA-4997

RWY 33: TORA-2687 TODA-2687 ASDA-2687 LDA-2687

AIRPORT REMARKS: Attended Mon-Fri 1030-0430Z†, Sat

1030-0300Z†, Sun 1030-0430Z†. Rwy 15-33 multiple large cracks in pavement. Grass growing out of cracks. Class I, ARFF Index B. CLOSED to unscheduled air carrier opr with more than 30

passenger seats except 24 hr PPR call arpt manager 252-758-4707. Index C ARFF equip avbl upon req. 24 hr helicopter ops at hospital 1.5 NM SSW of arpt; monitoring CTAF. Lgt'd windsock OTS indef. Rwy 15-33 non-acr acft only. ACTIVATE MIRL Rwy 08-26, HIRL Rwy 02-20 and MALSR Rwy 20—CTAF. PAPI Rwy 02, Rwy 20, Rwy 08 and Rwy 26 opr continuous.

WEATHER DATA SOURCES: AWOS-3 128.425 (252) 758-6485.**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCO 122.35 (RALEIGH RADIO)

® WASHINGTON CENTER APP/DEP CON 135.5

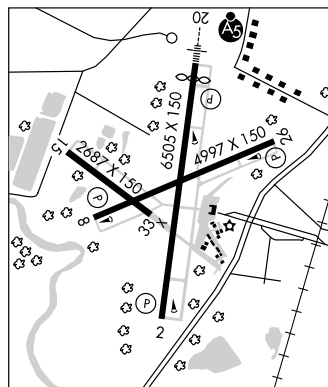
CLNC DEL 122.35 (RALEIGH RADIO)

AIRSPACE: CLASS E svc 1100-0500Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61' W77°42.23' 148° 25.7 NM to fld. 70/05W.

ALWOOD NDB (MHW) 230 AQE N35°42.41' W77°22.31' 198° 4.3 NM to fld. NOTAM FILE PGV.

ILS/DME 110.7 I-PGV Chan 44. Rwy 20. Class IB. LOC unmonitored 0430-1100Z†. DME unmonitored. GS unmonitored.

**GREON** N35°47.82' W78°52.98' NOTAM FILE RDU.

CHARLOTTE

NDB (LOM) 382 RD 051° 6.7 NM to Raleigh-Durham Intl. (Unmonitored)

HALIFAX-NORTHAMPTON RGNL (See ROANOKE RAPIDS)**HARNETT RGNL JETPORT** (See ERWIN)

HATTERAS**BILLY MITCHELL** (HSE) 4 E UTC-5(-4DT) N35°13.97' W75°37.07'

CHARLOTTE

17 NOTAM FILE HSE

L-35C

RWY 07-25: H3000X75 (ASPH) S-30

IAP

RWY 07: Brush. **RWY 25:** Tree.

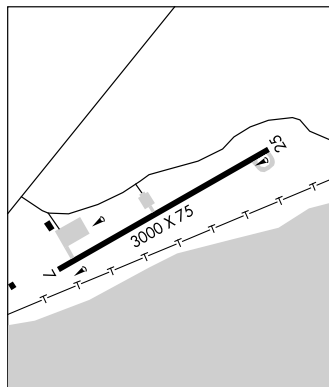
AIRPORT REMARKS: Unattended. Arpt CLOSED 30 minutes after SS until 30 minutes before SR. All ngt time ops prohibited. Flocks of seagulls on and invof arpt. High speed-low level military ops invof arpt. Arpt is within Cape Hatteras National Seashore. Maintain 2000 ft vertical and horizontal distance from seashore beaches.

Additional acft parking avbl on N apron.

WEATHER DATA SOURCES: ASOS 118.375 (252) 995-3646.**COMMUNICATIONS:** CTAF 122.9**HATTERAS RCO** 122.3 (RALEIGH RADIO)**CHERRY POINT APP/DEP CON** 119.75 (North)**RADIO AIDS TO NAVIGATION:** NOTAM FILE ECG.**ELIZABETH CITY (L) VOR/DME** 112.5 ECG Chan 72 N36°15.46'

W76°10.54' 163° 67.2 NM to fld. 10/07W.

HIWAS.

**HATTERAS** N35°14.01' W75°37.06'

CHARLOTTE

RCO 122.3 (RALEIGH RADIO) at Billy Mitchell.

L-35C

HENDERSON FLD (See WALLACE)**HENDERSON-OXFORD** (See OXFORD)**HENDERSONVILLE** (ØA7) 2 E UTC-5(-4DT) N35°18.46' W82°25.99'

ATLANTA

2084 S4 **FUEL** 100LL NOTAM FILE RDU

L-25C

RWY 15-33: H3075X40 (ASPH) S-10 LIRL**RWY 15:** Thld dsplcd 270'. Trees. **RWY 33:** Thld dsplcd 325'. Road.

AIRPORT REMARKS: Attended continuously. For svc after hrs call 828-693-1897. Acft parked 40' from edge of Rwy 15-33 S end. ACTIVATE LIRL Rwy 15-33-CTAF. Ldg fee. \$10.00 fee for acft over 6000 lbs or turbine.

COMMUNICATIONS: CTAF/UNICOM 123.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

SUGARLOAF MOUNTAIN (L) VORTAC 112.2 SUG Chan 59 N35°24.39' W82°16.12' 236° 10 NM to fld. 3970/02W.

HIATT (See THOMASVILLE)

HICKORY**HICKORY RGNL** (HKY) 3 W UTC-5(-4DT) N35°44.47' W81°23.37'

CHARLOTTE

1190 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE HKY

H-9B, 12G, L-25D

RWY 06-24: H6400X150 (ASPH-GRVD) S-32, D-55 HIRL 0.8% up NE

IAP, AD

RWY 06: REIL. VASI(V4L)—GA 3.0° TCH 49'. Trees.

RWY 24: MALSR. PAPI(P4L)—GA 3.0° TCH 54'.

RWY 01-19: H4400X150 (ASPH) S-30, D-40 MIRL 0.6% up N

RWY 01: REIL. PAPI(P4L). Tree.

RWY 19: REIL. VASI(V4R)—GA 3.0° TCH 32'.

AIRPORT REMARKS: Attended continuously. Limited svcs avbl 0400-1100Z. Txf Rwy 19 prohibited when twr closed. No practice IFR apchs between 2100-0000Z. CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24 hr PPR call arpt manager 828-323-7408. No line of sight between Rwy 19 and Rwy 24. ACTIVATE HIRL Rwy 06-24, MIRL Rwy 01-19, PAPI Rwy 24, REIL Rwy 01 and MALSR Rwy 24—CTAF (0400-1200Z).

WEATHER DATA SOURCES: ASOS 118.325 (828) 322-2996.**COMMUNICATIONS:** CTAF 128.15

RCO 122.6 122.2 (RALEIGH RADIO)

Ⓡ ATLANTA CENTER APP/DEP CON 125.15 CLNC DEL 124.25 (When twr clsd)

TOWER 128.15 (1200-0400Z) GND CON 121.7

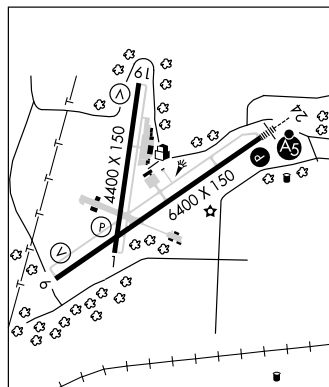
CLNC DEL 121.7

AIRSPACE: CLASS D svc 1200-0400Z other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

BARRETT'S MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45 N35°52.13' W81°14.43' 230°10.6 NM to fld. 1880/06W.

TAWBA NDB (MHW/LOM) 332 HK N35°47.19' W81°18.32' 243° 4.9 NM to fld. NOTAM FILE HKY.

ILS 108.7 I-HKY Rwy 24. LOM TAWBA NDB.

**WILSON'S** (E40) 4 S UTC-5(-4DT) N35°39.12' W81°21.47'

CHARLOTTE

985 NOTAM FILE RDU

RWY 17-35: 2175X70 (TURF)

RWY 17: Trees.

RWY 35: Trees.

AIRPORT REMARKS: Unattended. Arpt open dalgt hrs only. 130' AGL unmarked p-lines 1000' N and E of rwy. Rwy 35 slopes uphill. Last half of Rwy 17 slopes downhill—dep end of Rwy 35 is 6' lower than opposite end.

COMMUNICATIONS: CTAF 122.9**HIMUN** N35°58.69' W79°35.08' NOTAM FILE BUY.

CINCINNATI

NDB (MHW/LOM) 361 HB 044° 6.8 NM to Burlington-Alamance Rgnl.

L-25E, 36F

HINSHAW (GREENACRES) (See LIBERTY)**HOLLY RIDGE/TOPSAIL ISLAND** (N21) 1 SE UTC-5(-4DT) N34°29.46' W77°31.86'

CHARLOTTE

40 NOTAM FILE RDU

RWY 14-32: 3600X88 (TURF) RWY LGTS (NSTD)

RWY 14: Thld dsplcd 925'. P-lines.

RWY 32: Thld dsplcd 600'. P-lines.

AIRPORT REMARKS: Attended irregularly. Deer on and invof arpt. Rwy 14-32 lgtd thld Rwy 14 relocated 925'; Rwy 32 lgtd thld relocated 675'; 2000' of Rwy 14-32 usable for ngt ops. Dsplcd thld indicated by end of rwy lgts and yellow cones.

COMMUNICATIONS: CTAF 122.9**HORACE WILLIAMS** (See CHAPEL HILL)**HUNTSBORO** N36°18.03' W78°37.12' NOTAM FILE RDU.

WASHINGTON

NDB (MHW) 271 HXO 057° 5.7 NM to Henderson-Oxford.

L-36G

HURDLE FLD (See MEBANE)

HURDLE MILLS**WHITFIELD FARMS** (4W4) 2 W UTC-5(-4DT) N36°17.01' W79°04.73'

CINCINNATI

653 NOTAM FILE RDU

RWY 03-21: 1950X70 (TURF)**RWY 03:** Trees. **RWY 21:** Thld dsplcd 400'. Trees.**AIRPORT REMARKS:** Unattended. Be alert farm equipment/cattle may be on strip; salvage acft left side of Rwy 03.

Small radio control model airplanes operate on airport. Owner prefers ldgts to the S and tkfs to the N. Rwy 03-21 NSTD markings, marked by yellow cones.

COMMUNICATIONS: CTAF 122.9**HYDE CO** (See ENGELHARD)**INDIAN TRAIL****GOOSE CREEK** (28A) 6 NE UTC-5(-4DT) N35°07.26' W80°35.24'

CHARLOTTE

565 B **FUEL** 100LL TPA—See Remarks NOTAM FILE RDU**RWY 04-22:** H2350X35 (ASPH) LIRL (NSTD)**RWY 04:** Thld dsplcd 122'. Trees. **RWY 22:** Tree.**AIRPORT REMARKS:** Attended irregularly. Call for fuel (704) 882-1102. Use caution due to extensive ultralight activity.

Farm equipment on and invof arpt. Birds and wildlife on and invof arpt. Rwy 04 ngt ldgts not authorized. Rwy 04-22 has 4' electric fence 65' from centerline on southeast side. Rwy 04-22 has 15' dropoff 50' from centerline on southeast side at midfield. Rwy 04-22 has 15' roads 55' from centerline both sides of rwy. Rgt tfc Rwy 04 and Rwy 22 for ultralights only. TPA for ultralights 1100(535)), TPA for all other acft 1600(1035). Rwy 04-22 frst 400' southwest end unlgtd. Rwy 04-22 NSTD LIRL no thld lgts. Arpt lgts opr dusk-0530Z†.

COMMUNICATIONS: CTAF/UNICOM 123.0**JAARS-TOWNSEND** (See WAXHAW)**JACKSON CO** (See SYLVA)**JACKSONVILLE****ALBERT J ELLIS** (OAJ) 10 NW UTC-5(-4DT) N34°49.75' W77°36.73'

CHARLOTTE

94 B S4 **FUEL** 100LL, JET A ARFF Index—See Remarks NOTAM FILE OAJ

H-9C, 12G, L-35B

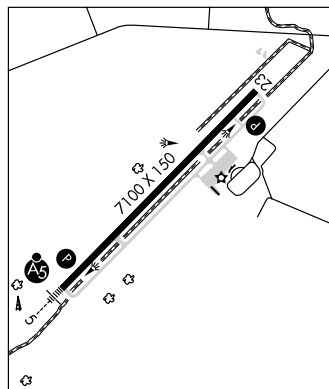
RWY 05-23: H7100X150 (ASPH-GRVD) S-75, D-175, ST-175, DT-300 HIRL

IAP

RWY 05: MALSR. PAPI(P4L)—GA 3.0°TCH 55'.**RWY 23:** REIL. PAPI(P4L)—GA 3.0°TCH 47'.**AIRPORT REMARKS:** Attended 1000-0100Z†. For fuel other hrs call 910-347-8366. CLOSED to air carrier ops with more than 30 passenger seats 0500-1000Z† except PPR call arpt manager 910-324-1100. Class I, ARFF Index A. Index B ARFF equipment is avbl. Arpt CLOSED to all military acft over 17,000 lbs for air carrier ramp ops except 24 hr PPR. Call arpt manager Mon-Fri 910-324-1100. 180°turns on Rwy 05-23 not authorized for acft 60,000 pounds and over. ACTIVATE HIRL Rwy 05-23, MALSR Rwy 05, REIL Rwy 23 and PAPI Rwy 05 and Rwy 23—CTAF. HIRL step 3 only.**WEATHER DATA SOURCES:** AWOS-3 124.475 (910) 324-5233.**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓐ WILMINGTON APP/DEP CON 135.75 (1100-0400Z†) CLNC DEL 121.4

Ⓑ WASHINGTON CENTER APP/DEP CON 135.75 (0400-1100Z†)

AIRSPACE: CLASS E svc Sun-Fri 1100-0500Z†, Sat 1100-0430Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE CRE.**GRAND STRAND (L) VORTAC** 117.6 CRE Chan 123 N33°48.83' W78°43.47' 045° 82.2 NM to fld. 20/03W.**ELLAS NDB (LOM)** 261 OA N34°45.03' W77°42.27' 052° 6.6 NM to fld. Unmonitored. NOTAM FILE OAJ.**ILS/DME** 108.7 I-OAJ Chan 24 Rwy 05. LOM ELLAS NDB. LOM ELLAS NDB unmonitored.**SKY MANOR** (N22) 8 W UTC-5(-4DT) N34°43.01' W77°35.53'

CHARLOTTE

60 NOTAM FILE RDU

RWY 08-26: 3610X85 (TURF)**RWY 08:** Thld dsplcd 595'. Trees. **RWY 26:** Trees.**AIRPORT REMARKS:** Unattended. CAUTION—Areas of standing water on rwy after rains. Be alert, deer invof arpt. West half of rwy extremely soft when wet. Tkf and ldg in strong crosswinds not recommended due to severe drafts from trees. Rwy 08-26 marked with 2' yellow cones. Cones obscured by grass and brush.**COMMUNICATIONS:** CTAF 122.9

JEFFERSON**ASHE CO** (GEV) 3E UTC-5(-4DT) N36°25.95' W81°25.18'

CINCINNATI

3180 B S4 **FUEL** 100LL, JET A1+ NOTAM FILE GEV

L-250

RWY 10-28: H4293X75 (ASPH) S-12.5 MIRL 1.8% up W

IAP

RWY 10: Trees.**RWY 28:** REIL. VASI(V2L)—GA 3.3° TCH 44'. Brush.**AIRPORT REMARKS:** Attended 1400-2200Z+. CLOSED Christmas day.

For svc after hrs call 336-877-1102. Rising terrain all quadrants.

Rwy 28 has an uphill grade. Rws 10 and 28 safety areas have

100 ft dropoffs 270 ft from thld. Rwy 28, 100' dropoffs 90' left

and right of centerline. Construction activity on ramp and twy.

Deer invof arpt. Rwy 28 mountain penetrates VASI glide slope.

ACTIVATE MIRL Rwy 10-28; VASI Rwy 28 and REIL Rwy 28—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.675 (336) 982-5555.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ ATLANTA CENTER APP/DEP CON 125.15

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.**HOLSTON MOUNTAIN (L) VORTAC** 114.6 HMM Chan 93 N36°26.22'

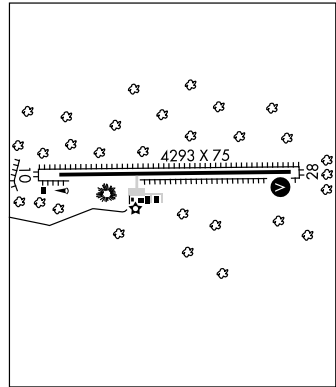
W82°07.77' 094° 34.4 NM to fld. 4321/04W.

ASHEE NDB (MHW/LOM) 410 JU N36°26.04' W81°19.32' 276°

4.7 NM to fld. NOTAM FLD GEV.

ILS/DME 109.35 I-JUH Chan 30 Rwy 28. LOM ASHEE

NDB. LOC only. DME unusable byd 15° left of course.

**JIGEL** N34°32.76' W79°08.30' NOTAM FILE LBT.

CHARLOTTE

NDB (MHW/LOM) 384 JB 054° 5.5 NM to Lumberton Muni.

L-24J, 35A, 36E

JOHNSTON CO (See SMITHFIELD)**JONESVILLE****SWAN CREEK** (78A) 3 SW UTC-5(-4DT) N36°12.14' W80°52.09'

CINCINNATI

1135 NOTAM FILE RDU

RWY 10-28: 2600X200 (TURF)**RWY 10:** Trees.**RWY 28:** Hill.**RWY 02-20:** 1650X200 (TURF)**RWY 02:** Road.**RWY 20:** Trees.**AIRPORT REMARKS:** Attended irregularly. Arpt CLOSED to transient acft. Parachute Jumping. No line-of-sight between rwy ends. Rwy 10 slopes uphill; Rwy 02 first half slopes uphill. Rwy 20+3' fence 40' prior to thld. Arpt phone 919-835-9555.**COMMUNICATIONS:** CTAF 122.9**JULIAN****KECKS** (N88) 2 NE UTC-5(-4DT) N35°55.59' W79°37.65'

CHARLOTTE

724 NOTAM FILE RDU

RWY 05-23: 1400X75 (TURF)**RWY 05:** Fence.**RWY 23:** Fence.**AIRPORT REMARKS:** Unattended. Agricultural equipment occasionally on rwy. Buildings on NW edge of rwy. Additional obstruction p-line 1600 ft from thld Rwy 23.**COMMUNICATIONS:** CTAF 122.9**JURLY** N35°28.50' W78°25.52' NOTAM FILE JNX.

CHARLOTTE

NDB (MHW/LOM) 263 JN 032°4.3 NM to Johnston Co. NDB unmonitored 2200-1300Z+.

L-35B, 36F

NDB unusable byd 15 NM.

KATFI N35°01.29' W77°04.77' NOTAM FILE EWN.

CHARLOTTE

NDB (LOM) 362 EW 038° 3.6 NM to COASTAL CAROLINA RGNL.**KEANS** N35°31.97' W82°35.25' NOTAM FILE AVL.

ATLANTA

NDB (LOM) 357 IM 163° 6.2 NM to Asheville Rgnl. ILS OTS 0330-1130Z+ indef.**KECKS** (See JULIAN)

KENAN N35°04.34' W77°55.13' NOTAM FILE DPL.

NDB (MHW) 332 DKA 223° 5.3 NM to Duplin Co.

CHARLOTTE

L-35B

KENANSVILLE**DUPLIN CO** (DPL) 2 NW UTC-5(-4DT) N35°00.00' W77°58.90'

136 B S4 FUEL 100LL, JET A1 + OX 3 NOTAM FILE DPL

RWY 05-23: H6002X75 (ASPH) S-30, D-50 MIRL

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 26'. Trees.

RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 44'. Trees.

AIRPORT REMARKS: Attended Apr-Oct Mon-Sat 1200-0000Z, Sun 1800-0000Z; Nov-Mar Mon-Sat 1300-2300Z, Sun 1800-2300Z. Deer/dogs/birds on and invof arpt. Twy lgts OTS indef. PAPI Rwy 05 and Rwy 23 opr continuously. ACTIVATE REIL Rwy 05 and Rwy 23—CTAF. MIRL Rwy 05-23 on until midnight. After midnight, ACTIVATE MIRL Rwy 05-23—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.675 (910) 296-9688.**COMMUNICATIONS:** CTAF/UNICOM 123.0

① SEYMOUR JOHNSON APP/DEP CON 119.7 (1200-0430Z)

WASHINGTON CENTER APP/DEP CON 135.5 (0430-1200Z)

GCO 135.075 (SEYMOUR JOHNSON CLNC)

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 228° 30.5 NM to fld. 106/05W.

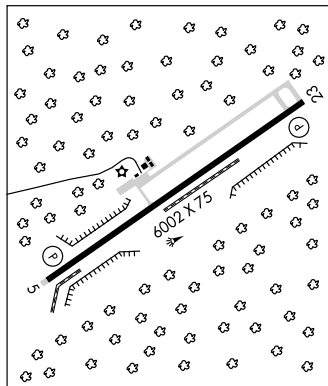
KENAN NDB (MHW) 332 DKA N35°04.34' W77°55.13' 223° 5.3 NM to fld. NOTAM FILE DPL.

ILS 110.1 I-PZR Rwy 23. LOC only. LOC unusable byd 20° left of course. Unmonitored.

CHARLOTTE

H-9C, 126, L-35B

IAP

**KILL DEVIL HILLS****FIRST FLIGHT** (FFA) 1 W UTC-5(-4DT) N36°01.09' W75°40.28'

13 TPA-813(800) NOTAM FILE FFA

RWY 02-20: H3000X60 (ASPH) S-10

RWY 02: Road. RWY 20: Brush. Rgt tfc.

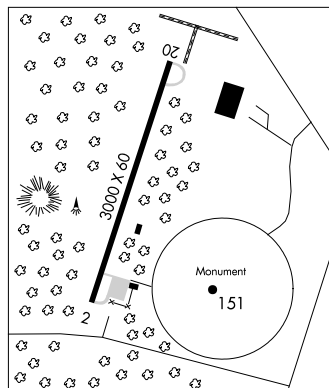
AIRPORT REMARKS: Unattended. Airport CLOSED 30 minutes after SS until 30 minutes before SR. Hang gliding and powered hang gliding to 4000' invof arpt from SR-SS year round. Unmarked p-lines in apch area Rwy 02; 300' twr and tank ½ mile N of Rwy 20 thld. Deer and birds on and invof arpt. PPR Superintendent Cape Hatteras National Seashore, Manteo, NC, required for acft over 12,500 lbs. Windsock partially obscured by trees from apron. A maximum of 24 hrs parking permitted. No more than two overnight stays per month. Restroom facilities on site, key code access to Pilot Lounge.

WEATHER DATA SOURCES: AWOS-3 118.075 (252) 449-0698.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE MQI.**WRIGHT BROTHERS (T) VORW/DME** 111.6 RBX Chan 53

N35°55.23' W75°41.82' 020° 6 NM to fld. 10/08W.

WASHINGTON

L-35D



KINSTON RGNL JETPORT AT STALLINGS FLD (ISO) 3 NW UTC-5(-4DT)

CHARLOTTE

N35°19.89' W77°36.53'

H-9C, 12H, L-35B

93 B S4 FUEL 100LL, JET A Class I, ARFF Index B NOTAM FILE ISO

IAP, AD

RWY 05-23: H11500X150 (ASPH-GRVD) S-90, D-135, ST-175, DT-260 HIRL

RWY 05: MALSR. PAPI(P4L)—GA 3.0° TCH 60'. Thld dsplcd 540'.

RWY 23: REIL. PAPI(P4L)—GA 3.0° TCH 74'. Pole.

AIRPORT REMARKS: Attended 1130-0300Z†. CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24 hr PPR call arpt manager 252-522-2922. When twr clsd ACTIVATE HIRL Rwy 05-23, MALSR Rwy 05 and REIL Rwy 23—CTAF.

WEATHER DATA SOURCES: AWOS-3 132.75 (252) 522-2712. LAWRS.**COMMUNICATIONS:** CTAF 120.6 UNICOM 122.95

RCO 122.15R 109.6T (RALEIGH RADIO)

® SEYMOUR JOHNSON APP/DEP CON 127.3 (1200-0430Z†)

WASHINGTON CENTER APP/DEP CON 135.5 (0430-1200Z†)

TOWER 120.6 (1130-0300Z†) GND CON 121.9

AIRSPACE: CLASS D svc 1130-0300Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

(L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 231° 3.4 NM to fld. 106/05W.

VOR portion unusable 221°-231° byd 30 NM blo 2000'.

STALS NDB (LOM) 276 IS N35°14.64' W77°41.90' 049° 6.8 NM to fld.

ILS 111.3 I-ISO Rwy 05. Class IT. LOM STALS NDB. Unmonitored when twr clsd. LOC BC unusable. MM OTS indef.

LAKE NORMAN AIRPARK (See MOORESVILLE)**LANEYS** (See MAIDEN)**LAURINBURG-MAXTON** (See MAXTON)**LEECO** N35°29.84' W79°08.40' NOTAM FILE TTA.

CHARLOTTE

NDB (MHW/LOM) 406 TT 028° 5.5 NM to Sanford-Lee Co Rgnl.

L-35B, 36F

LEEVEY N35°55.63' W78°43.32' NOTAM FILE RDU.

CHARLOTTE

NDB (HW/LOM) 350 LE 234° 4.4 NM to Raleigh-Durham Intl.

L-36F

LEXINGTON**DAVIDSON CO** (EXX) 3 SW UTC-5(-4DT) N35°46.87' W80°18.23'

CHARLOTTE

733 B S4 FUEL 100LL, JET A+ NOTAM FILE EXX

H-9B, 12G, L-25D, 36F

RWY 06-24: H5004X99 (ASPH) MIRL 0.6% up SW

IAP

RWY 06: REIL. PAPI(P2L)—GA 4.0° TCH 32'. Trees.

RWY 24: REIL. PAPI(P2L)—GA 3.5° TCH 35'. Trees.

AIRPORT REMARKS: Attended 1300-0230Z†. Wildlife on and invof arpt.

Follow taxiway centerline to parking. Maximum ramp weight 30,000 pounds single wheel, 60,000 pounds dual wheel. After 0500Z† ACTIVATE PAPI Rwy 06 and Rwy 24, REIL Rwy 06 and Rwy 24—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.825 (336) 956-2967.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® GREENSBORO APP/DEP CON 118.5

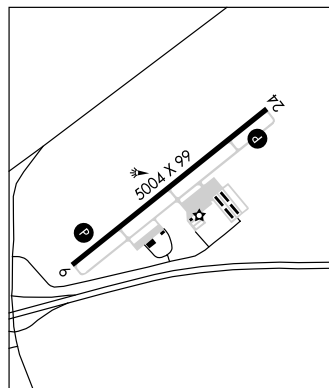
GCO 135.075 (GREENSBORO CLNC and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 228° 22.5 NM to fld. 879/3W. HIWAS.

ILS/DME 108.75 I-EXX Chan 24(Y) Rwy 06

COMM/NAV/WEATHER REMARKS: GCO OTS indef.**LIBERTY** N35°48.70' W79°36.76' NOTAM FILE RDU.

CHARLOTTE

(L) VORTAC 113.0 LIB Chan 77 001° 6.1 NM to Causey. 830/03W.

H-9C, L-25E, 36F

RCO 122.1R 113.0T (RALEIGH RADIO)

LIBERTY

CAUSEY (2A5) 4 NW UTC-5(-4DT) N35°54.71' W79°37.06'
723 B S4 FUEL 100LL, JET A1+ OX 1 NOTAM FILE RDU
RWY 02-20: H3800X40 (ASPH) S-8 LIRL(NSTD)

CHARLOTTE
L-25A, 36F
IAP

RWY 02: Trees. RWY 20: Tree.

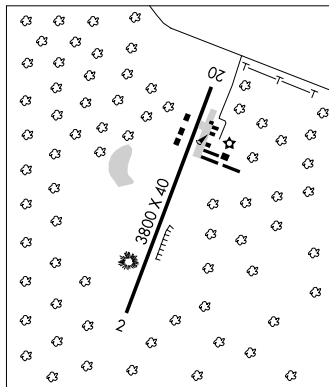
AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z, Sun 1800-2200Z. CLOSED New Year's Day, Easter, Jul 4th, Thanksgiving and Christmas. Fuel tank located 500' from Rwy 20 thld and 125' left. Rwy 02-20 NSTD LIRL; thld lghts located in the grass area 200' before the apch end Rwy 02; Rwy 20 thld lghts located in the grass area 300' before the AER 20. Rwy 02-20 NSTD LIRL lghts smaller than standard and 20' from pavement edge. Rwy 02 numbers NSTD basic; smaller than normal. Rwy 20 NSTD markings; smaller than normal. Soft dirt all rwy edges; exit ramp and twy. Building and parked acft within 90' of centerline at N end of rwy.

COMMUNICATIONS: CTAF/UNICOM 122.8

® GREENSBORO APP/DEP CON 118.5

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

LIBERTY (L) VORTAC 113.0 LIB Chan 77 N35°48.70'
W79°36.76' 001° 6.1 NM to fld. 830/03W.



HINSHAW (GREENACRES) (N61) 3 NE UTC-5(-4DT) N35°52.42' W79°31.65'

CHARLOTTE

750 NOTAM FILE RDU

RWY 03-21: 1400X100 (TURF)

RWY 03: Trees. RWY 21: Trees.

AIRPORT REMARKS: Unattended. Ultralight activity on and invof arpt. 4' fence end of Rwy 3 and along both sides of rwy in primary surface. Rwy 03-21 width 50' maintained regularly. Arpt in traffic pattern of Causey Airport 2A5 (2 miles east) CTAF 122.8.

COMMUNICATIONS: CTAF 122.9

LINCOLNTON-LINCOLN CO RGNL (IPJ) 5 E UTC-5(-4DT) N35°29.00' W81°09.68'

CHARLOTTE

877 B S4 FUEL 100LL, JET A1+ OX 2, 4 NOTAM FILE IPJ

H-9B, 12G, L-25D
IAP

RWY 05-23: H5500X100 (ASPH) S-30, D-60 MIRL

RWY 05: REIL. PAPI(P2L) GA-3.40° TCH 64'.

RWY 23: REIL. PAPI(P2L) GA-3.45° TCH 30'. Thld dspldc 210'.
Trees.

AIRPORT REMARKS: Attended Apr-Oct 1300-0100Z, Nov-Mar 1300-0000Z. CLOSED Christmas Day. Deer, coyote and birds on and invof arpt. Rwy 23 has a 90' dropoff 100' from pavement. MIRL Rwy 05-23 preset low ints, to increase ints and ACTIVATE REIL and PAPI Rwy 05 and Rwy 23-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.675 (704) 735-6954.

COMMUNICATIONS: CTAF/UNICOM 123.05

® CHARLOTTE APP/DEP CON 134.75 CLNC DEL 124.9

GCO 124.9 (CHARLOTTE CLNC)

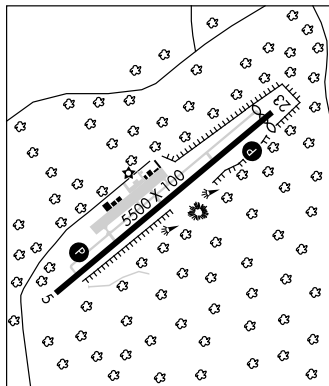
RADIO AIDS TO NAVIGATION: NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42'
W80°57.11' 335° 20.4 NM to fld. 732/05W. HIWAS.

LINCOLNTON NDB (MHW) 432 IZN N35°32.26' W81°05.19'

234° 4.9 NM to fld. NOTAM FILE RDU.

ILS 111.15 I-IPJ Chan 48(Y) Rwy 23.



LONE HICKORY (See YADKINVILLE)

LOUISBURG**FRANKLIN CO**

(LHZ) 5 SW UTC-5(-4DT) N36°01.40 W78°19.82'

CHARLOTTE

369 B S4 FUEL 100LL, JET A1+ NOTAM FILE LHZ

H-9C, 12H, L-35B, 36G

RWY 05-23: H5498X100 (ASPH) S-40, D-60 MIRL 0.7% up SW

IAP

RWY 05: MALSR. PAPI(P2L) GA-3.0° TCH 23'. Trees. Rgt tfc.

RWY 23: REIL. PAPI(P2L) GA-3.0° TCH 46'. Trees.

AIRPORT REMARKS: Attended 1300Z-0000Z. Arpt phone

919-496-1234; for svc after hrs call 919-729-4118. Arpt

unattended Thanksgiving and Christmas. Birds on and invof arpt.

ACTIVATE MIRL Rwy 05-23 and REIL Rwy 23 and MALSR Rwy

05-CTAF; PAPI Rwy 05 and Rwy 23 opr continuous until dusk.

After dusk ACTIVATE PAPI Rwy 05 and Rwy 23-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.325 (919) 497-0810.

COMMUNICATIONS: CTAF/UNICOM 123.0

® RALEIGH APP/DEP CON 125.3

GCO 135.075 (RALEIGH CLNC)

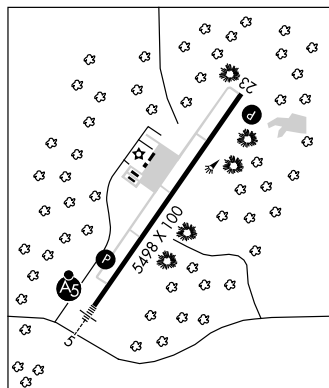
RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTAC 117.2 RDU Chan

119 N35°52.35' W78°47.00' 072° 23.9 NM to fld.

429/04W.

ILS/DME 109.35 I-LHZ Chan 30(Y) Rwy 05. Class IA.

**LUMBERTON MUNI**

(LBT) 3 W UTC-5(-4DT) N34°36.60' W79°03.57'

CHARLOTTE

126 B S4 FUEL 100LL, JET A1+ NOTAM FILE LBT

H-9C, 12G, L-24J, 35A, 36E

RWY 05-23: H5510X150 (ASPH) S-15 PCN 100 F/B/Y/T MIRL

IAP

RWY 05: REIL. PAPI(P4L) GA 3.0° TCH 45'. Thld displcd 170'. Trees.

RWY 23: REIL. VASI(V4L) GA 3.0° TCH 45'. Trees.

RWY 13-31: H4998X150 (ASPH) S-8 PCN 100 F/B/Y/T

RWY 13: Trees. RWY 31: Thld displcd 590'.

AIRPORT REMARKS: Attended 1300-0000Z. For fuel after hrs call

910-618-9958. Deer and birds on and invof arpt. Rwy 05-23 and

13-31 no line of sight between rwy ends. Rwy 05 REIL OTS indef.

MIRL Rwy 05-23 preset low ints; to increase ints and ACTIVATE

REIL and PAPI Rwy 05 and VASI Rwy 23-CTAF.

WEATHER DATA SOURCES: ASOS 134.775 (910) 671-1906.

COMMUNICATIONS: CTAF/UNICOM 122.8

® FAYETTEVILLE APP/DEP CON 133.0

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13'

W78°52.50' 206° 24.3 NM to fld. 179/04W.

(T) VOR 110.0 LBT N34°36.64' W79°03.29' at fld.

NOTAM FILE LBT.

VOR unusable: 061°-134° blo 3,000', 135°-164° byd 15 NM

blo 3,000', 165°-185°, 186°-199° byd 15 NM blo 3,000',

200°-230°, 231°-060° byd 15 NM blo 3,000'.

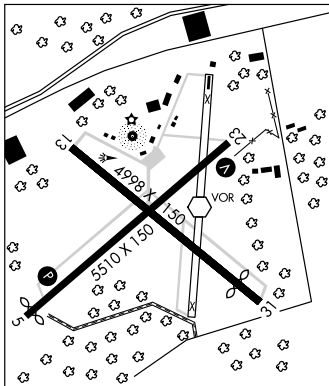
JIGEL NDB (MHW/LOM) 384 JB N34°32.76' W79°08.30' 054° 5.5 NM to fld. NOTAM FILE LBT.

ROBESON NDB (MHW) 359 RSY N34°36.81' W79°03.59' at fld. NOTAM FILE LBT.

ILS 108.95 I-JBD Rwy 05. LOM JIGEL NDB.

COMM/NAV/WEATHER REMARKS: VOR and NDB unmonitored 0100-1300Z Fri and Sat,

0000-1300Z Sun and Mon.



MACKALL AAF (HFF) A 1 E UTC-5(-4DT) N35°02.20' W79°29.84'

CHARLOTTE

376 B NOTAM FILE RDU Not insp.

L-35A, 36F

RWY 04-22: H4997X150 (ASPH) PCN 32 F/B/W/T

DIAP

RWY 16-34: H4916X150 (CONC)

RWY 11-29: H4740X150 (CONC) PCN 10 R/D/W/T HIRL

RWY 11: REIL. Thld displcd 501'. RWY 29: REIL.

MILITARY SERVICE: LGT Rwy lgts intermittent between SR/SS due to local night vision training, non-participating acft ctc twr to incr ints. **FUEL J8**

MILITARY REMARKS: Opr Mon-Sat 1310-0500Z±. Except Federal holidays. When twr and/or surface visibility is blo 4 SM the lesser will be reported as prevailing. Airfield subject to closing on short notice. See FLIP AP/1 flight hazard Sandhills VORTAC. **RSTD** PPR phone C(919) 396-6230/V236-6230 during opr hrs, other times V236-7804. First 1000' Rwy 11 usable for rotary wing opr only, remainder of rwy CLOSED. First 3500' Rwy 29 CLOSED. Twy D ltd to ACN 32 R/B/X/T. Helicopter with heavy-duty skid shoes will not touch down on Rwy 04-22 or set down on parking aprons, except concrete refuel pads. Rwy 16-34 CLOSED until further notice.

CAUTION Extensive military acft in vicinity of airfield, day and night. 120' communication antenna located WSW corner of fire station. Advisory: Rng Ctl 121.0, 304.6. **MISC** Contact twr chief DSN 236-7308/9775 during opr hours, other times DSN 236-7804. No engine will be shutdown on Rwy 04-22 or Twy H. Weather observation avbl. Weather forecast avbl from Simmons AAF via direct line.

COMMUNICATIONS: ATIS 141.4**FAYETTEVILLE APP/DEP CON** 127.8 343.725**TOWER** 121.0 254.4 (Mon-Sat 1310-0500Z±), except Federal holidays **GND CON** 128.35 251.05 41.75**PMSV METRO** 141.25 265.6 (Mon 0500Z±-Sat 0400Z±)**BASE OPS** 395.225 **RANGE RDO** 139.35 249.9 38.9**AIRSPACE:** CLASS D svc Mon-Sat 1310-0500Z±, except Federal holidays, other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**SANDHILLS (L) VORTAC** 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 160° 11.6 NM to field. 590/03W.**NDB (MHW)** 278 HFF N35°01.68' W79°29.14' at fld. Unmonitored 0500-1300Z±. No NOTAM MP 1st Tue 0400-1200Z±.

MACON CO (See FRANKLIN)

MAIDEN
LANEYS (N92) 3 SE UTC-5(-4DT) N35°34.46' W81°07.04'

CHARLOTTE

1025 NOTAM FILE RDU

RWY 13-31: 2400X75 (TURF)

RWY 05-23: 2000X100 (TURF)

RWY 05: P-line. RWY 23: P-line.

AIRPORT REMARKS: Attended 1300-dusk. Ultralight acft opr on and invof arpt. Rwy 05, Rwy 23 and Rwy 31 has unmarked p-lines across rwy thlds. Rwy 05 and Rwy 13 for preferred landing (uphill). Rwy 13 has no line of site from rwy end.

COMMUNICATIONS: CTAF/UNICOM 122.8

MANTEO N35°54.92' W75°41.70' NOTAM FILE MQI.

CHARLOTTE

NDB (MHW) 370 MQI at Dare Co. Rgnl. Unmonitored 2300-1300Z±.

L-35D

MANTEO**DARE CO RGNL** (MQI) 1 NW UTC-5(-4DT) N35°55.14' W75°41.73'

CHARLOTTE

13 B S4 FUEL 100LL, JET A1+ NOTAM FILE MQI

L-35D

RWY 05-23: H4305X100 (ASPH) S-48 MIRL

IAP, AD

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 28'. Thld dsplcd 305'.

RWY 23: PAPI(P2L)—GA 4.0°. Thld dsplcd 301'. Trees.

RWY 17-35: H3301X73 (ASPH) S-20 MIRL

RWY 17: Thld dsplcd 289'. Trees.

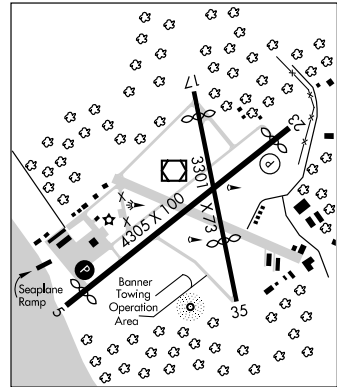
RWY 35: Thld dsplcd 989'. Trees.

AIRPORT REMARKS: Attended 1300-0000Z†. CLOSED Christmas day.

After hrs self svc fuel avbl with credit card—100LL. Call 252-216-7028 or 252-216-8407. 300' crane 3 NM SW AER 05. 200' lgtd crane 2 NM SSW of arpt. Banner towing ops 200' W of Rwy 05. Migratory waterfowl Oct-Feb. Rwy 05 15' dropoff 40' from thld. Rwy 23 PAPI OTS indef. ACTIVATE MIRL Rwy 05-23 and 17-35, PAPI and REIL Rwy 05—CTAF.

WEATHER DATA SOURCES: AWOS-3 128.275 (252) 473-2826.**COMMUNICATIONS:** CTAF/UNICOM 122.8**WASHINGTON CENTER APP/DEP CON** 124.725**RADIO AIDS TO NAVIGATION:** NOTAM FILE MQI.**WRIGHT BROTHERS (T) VORW/DME** 111.6 RBX Chan 53

N35°55.23' W75°41.82' at fld. 10/08W.

MANTEO NDB (MHW) 370 MQI N35°54.92' W75°41.70' at fld.**COMM/NAV/WEATHER REMARKS:** VORW/DME and NDB unmonitored 2300-1300Z†.**MARION****SHIFLET FLD** (9A9) 3 N UTC-5(-4DT) N35°43.24' W82°00.59'

ATLANTA

1212 B S4 FUEL 100LL NOTAM FILE RDU

RWY 10-28: 3340X180 (TURF) LIRL

RWY 10: Trees.

RWY 28: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z†. For fuel call 828-655-1306 cash only. Rwy subject to flooding after very heavy rains on east end. Hangers are spaced closer than normal; slower taxi speeds required.

ACTIVATE LIRL Rwy 10-28 and arpt beacon—CTAF.

COMMUNICATIONS: CTAF 122.9**MARKY** N36°10.02' W80°02.14' NOTAM FILE GSO.

CINCINNATI

NDB (LOM) 254 GS 139° 6.3 NM to Piedmont Triad International. (Unmonitored)

L-25E, 36F

MARTIN CO (See WILLIAMSTON)**MAXTN** N34°44.04' W79°26.66' NOTAM FILE RDU.

CHARLOTTE

NDB (MHW/LOM) 257 ME 056° 5.2 NM to Laurinburg-Maxton. OM OTS indef.

L-35A, 36E

MAXTON**LAURINBURG—MAXTON** (MEB) 3 N UTC-5(-4DT) N34°47.52' W79°21.95'

CHARLOTTE

216 B S2 FUEL 100LL, JET A1+ NOTAM FILE MEB

H-9C, 126, L-35A, 36E

RWY 05-23: H6503X150 (CONC) S-25, D-35 HIRL

IAP

RWY 05: MALSR. PAPI(P4L)—GA 3.0°TCH 51'. Trees.

RWY 23: PAPI(P4L)—GA 3.0°TCH 50'. Trees. Rgt tfc.

RWY 13-31: H3753X150 (CONC) S-25, D-35 MIRL

RWY 13: Trees. Rgt tfc.

AIRPORT REMARKS: Attended Mon-Fri 1300Z±-2200Z±. For svc after hrs call 910-277-0367 or 910-318-6907. 24 hr self svc with credit card. For airframe repairs call arpt to arrange for svc. Parachute Jumping. Heavy parachute jumping at south end of closed Rwy 18-36 and south side of Rwy 13-31. Farming equipment and military operations on and invof arpt. Rwy 13-31 spalling, heaving, cracks and loose gravel on rwy due to failed pavement areas. Upslope first 1000' Rwy 23 restricted sight distance to SW end of rwy. Parallel and connector twys on Rwy 13-31 clsd and unusable. ACTIVATE MALSR Rwy 05, PAPI Rwy 05 and Rwy 23, HIRL Rwy 05-23—CTAF. For MIRL Rwy 13-31 ctc arpt manager 910-277-3067 or 910-318-6907.

WEATHER DATA SOURCES: ASOS 134.125 (910)844-5338.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® FAYETTEVILLE APP/DEP CON 127.8

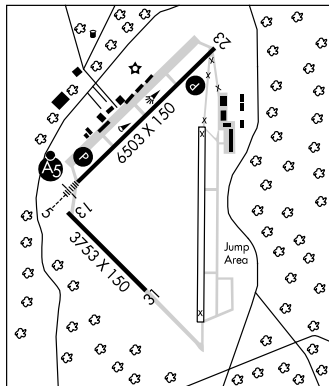
GCO 135.075 (FAYETTEVILLE CLNC)

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 160° 27.6 NM to fld. 590/03W.

MAXTN NDB (MHW/LOM) 257 ME N34°44.04' W79°26.66' 056° 5.2 NM to fld. OM OTS indef.

ILS 110.7 I-MEB Rwy 05. Class IB. LOM MAXTN NDB. LOC/GS unmonitored SS-SR. OM/MM unmonitored. OM OTS indef.

**MCCUTCHEON FLD** (See NEW RIVER MCAS)**MEADOW BROOK FLD** (See WALNUT COVE)**MEBANE****HURDLE FLD** (4W7) 2 SW UTC-5(-4DT) N36°04.01' W79°16.98'

CINCINNATI

680 NOTAM FILE RDU

RWY 03-21: 2200X150 (TURF)

RWY 03: Road. RWY 21: P-line.

AIRPORT REMARKS: Attended irregularly. Rwy 21 unmarked p-line is difficult to see.**COMMUNICATIONS:** CTAF 122.9**MEYERS HELIPORT** (See CANDLER)**MICHAEL J. SMITH FLD** (See BEAUFORT)

MOCKSVILLE**SUGAR VALLEY** (31A) 6 NE UTC-5(-4DT) N35°59.12' W80°30.67'

CHARLOTTE

731 FUEL 100LL TPA-1500(769) NOTAM FILE RDU

RWY 02-20: H2424X25 (ASPH) LIRL (NSTD)

RWY 02: Trees. Rgt t/c. RWY 20: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2100Z \pm . Fuel avbl weekends by prior arrangement. Call Mon-Fri 336-998-3971. Arpt CLOSED to transient acft 2300-1100Z \pm . Be alert for 55' trees 50' from Rwy 20 thld during ngt ops. Day VFR ops for transient acft only. Recommended ldg Rwy 02 and txf Rwy 20 due to obstructing trees on NE end. Rwy 02-20 safety area has hazardous depressions as close as 15' from pavement. Rwy 02 rwy numbers are smaller than standard. Rwy 20 rwy numbers are smaller than standard. Rwy 02-20 NSTD LIRL; not FAA approved L-800 series. Thld lgts 13' from pavement. ACTIVATE LIRL Rwy 02-20-CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

710

WATERWAY 02-20: 2000X100 (WATER)

WATERWAY 02: Trees. WATERWAY 20: Ground.

SEAPLANE REMARKS: Rwy 02W-20W CLOSED indef due to low water levels.**TWIN LAKES** (8A7) 5 NE UTC-5(-4DT) N35°54.89' W80°27.41'

CHARLOTTE

818 B S4 FUEL 100LL TPA-1618(800) NOTAM FILE RDU

L-25D, 36F

RWY 09-27: H2943X50 (ASPH) S-12.5 LIRL 1.5% up E

IAP

RWY 09: PAPI(P2R). Trees. RWY 27: Trees.

AIRPORT REMARKS: Attended 1300-2200Z \pm . Fuel 24 hr self service with credit card. Deer/migratory birds occasionally on arpt. Rwy 09 18 ft drop-off 150 ft from thld left and right of centerline. Rwy 09 PAPI ops dusk-dawn.

COMMUNICATIONS: CTAF/UNICOM 122.7

® GREENSBORO APP/DEP CON 124.35

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.**GREENSBORO (H) VORTAC** 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 255° 24.7 NM to fld. 879/03W. HIWAS.



MONROE**CHARLOTTE—MONROE EXECUTIVE** (EQY) 5 NW UTC-5(-4DT) N35°01.13' W80°37.21'**CHARLOTTE**679 B S4 FUEL 100LL JET A+ OX 3, 4 NOTAM FILE EQY
RWY 05-23: H5500X100 (ASPH) S-25 D-38 HIRL 0.3% up SWH-9B, 12G, L-25D, 36E
IAP

RWY 05: MALSR. REIL. PAPI(P2L)—GA 3.0° TCH 41'.

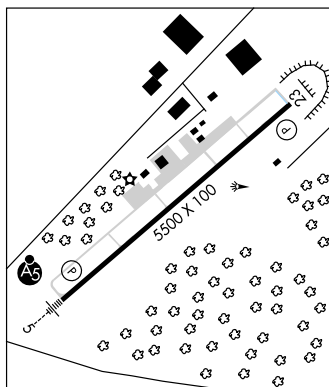
RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 44. Road.

AIRPORT REMARKS: Attended 1100-0300Z†. For after hr svc, phone 704-289-2615 or 704-320-6256. 24 hr self svc fuel, avbl for all fuel types with credit card. Deer, wildlife, and birds on and invof arpt. Unlighted construction crane located less than 1/4 mile southeast of Rwy 05-23. Arpt phone number 704-226-2300.

ACTIVATE HIRL Rwy 05-23, MALSR Rwy 05—CTAF. REIL Rwys 05 and 23 opr dusk-0500Z†. After 0500Z†, ACTIVATE—CTAF.

WEATHER DATA SOURCES: ASOS 135.775 (704) 283-5185.**COMMUNICATIONS:** CTAF/UNICOM 122.7Ⓡ **CHARLOTTE APP/DEP CON** 120.05 **CLINC DEL** 132.55**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT.**CHARLOTTE (L) VORW/DME** 115.0 CLT Chan 97 N35°11.42' W80°57.11' 127° 19.3 NM to fld. 732/05W. **HIWAS.****FORT MILL (L) VORTAC** 112.4 FML Chan 71 N34°59.35' W80°57.27' 086° 16.6 NM to fld. 645/02W. NOTAM FILE AND. SHUTDOWN.**WESLEY NDB (MHW)** 204 TWL N34°57.18' W80°42.31' 052° 5.8 NM to fld. NOTAM FILE EQY. NDB unmonitored 2200-1300Z†.

ILS 109.75 I-EQY Rwy 05. Class IA. LOC unmonitored 2200-1300Z†. Coupled apch not authorized blo 1120'.

**MONTGOMERY CO** (See STAR)**MOORE CO** (See PINEHURST/SOUTHERN PINES)**MOORESVILLE****LAKE NORMAN AIRPARK** (14A) 5 NW UTC-5(-4DT) N35°36.83' W80°53.97'**CHARLOTTE**

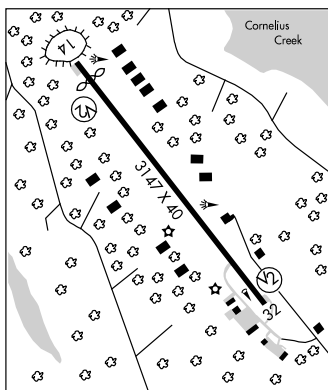
L-25D, 36E

839 B S4 FUEL 100LL NOTAM FILE RDU

RWY 14-32: H3147X40 (ASPH) S-8 MIRL 1.0% up SE

RWY 14: PVASI(PSIR)—GA 4.0° TCH 15'. Trees. Thld dsplcd 185'.

RWY 32: PVASI(PSIR)—GA 4.0° TCH 5'. Road.

AIRPORT REMARKS: Attended 1300-2300Z†. Dep Rwy 14 heading 160° to avoid school. Full acft maintenance avbl ctc 704-662-6986. VFR operations only. Rwy 14 has uphill grade. Acft taxiing on grass in vicinity of residential airpark hanger access. Rwy numbers NSTD. Rwy 14 small numbers. Rwy 32 has 10' drop off 5' fm left side of pavement and acft parked 200' fm end of Rwy 100' right of centerline. Noise sensitive area. Avoid departures between 0400 and 1100Z†. ACTIVATE MIRL Rwy 14-32—CTAF. PVASI opr dusk-dawn.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **CHARLOTTE APP/DEP CON** 134.75**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**CHARLOTTE (L) VORW/DME** 115.0 CLT Chan 97 N35°11.42' W80°57.11' 11° 25.5 NM to fld. 732/05W. **HIWAS.****MOREHEAD** N34°43.87' W76°39.73' NOTAM FILE MRH.**CHARLOTTE**

NDB (MHW) 269 MRH at Michael J. Smith Fld. NDB unmonitored.

L-35B

MORGANTON**FOOTHILLS RGNL** (MRN) 6 NE UTC-5(-4DT) N35°49.21' W81°36.68'

1270 B S5 FUEL 100LL, JET A1 + OX 1, 4 NOTAM FILE MRN

RWY 03-21: H5500X75 (ASPH) D-60 MIRL 0.7% up NE

RWY 03: REIL. PAPI(P4L)—GA 3.0° TCH 66'.

RWY 21: REIL. PAPI(P4R)—GA 3.5° TCH 50'. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1300Z±-SS, Sun 1400Z±-SS.

After hrs fuel or svc call 828-757-0099. Glider activity dalgt hrs.

Deer and coyote on and invof arpt. Rwy 03, 100' dropoff 330'

from thld and 80' both sides of centerline along first 1000' of rwy.

Rwy 21, 30' dropoff 400' from thld both sides and 10' dropoff 50'

from thld and 150' right of centerline. ACTIVATE MIRL Rwy 03-21,

REIL Rwy 03 and Rwy 21 and PAPI Rwy 03 and Rwy 21-CTAF.

WEATHER DATA SOURCES: AWOS-3 124.175 (828) 757-0788.**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ ATLANTA CENTER APP/DEP CON 125.15

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.**BARRETS MOUNTAIN (L) VOR/DME** 110.8 BZM Chan

45 N35°52.13' W81°14.43' 267° 18.3 NM to fld.

1880/06W.

FIDDLERS NDB (MHW) 391 FIQ N35°42.61' W81°40.28'

031° 7.2 NM to fld. NDB unusable byd 20 NM. NDB located

41,900' from threshold Rwy 03 and 400' SE of extended

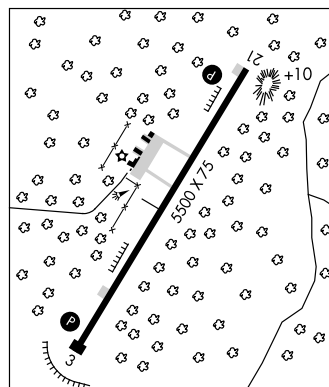
centerline.

ILS 111.1 I-MRN Rwy 03. Localizer only.

CHARLOTTE

H-9B, 126, L-25C

IAP

**MOUNT AIRY/SURRY CO**

(MWK) 3 SE UTC-5(-4DT) N36°27.58' W80°33.18'

1249 B S2 FUEL 100LL, JET A1+ NOTAM FILE MWK

RWY 18-36: H4301X75 (ASPH) S-10 MIRL 0.9% up N

RWY 18: PAPI(P2L)—GA 4.0° TCH 27'. Thld dsplcd 490'. Trees.

RWY 36: PAPI(P2L)—GA 3.0° TCH 26'. Trees.

AIRPORT REMARKS: Attended 1300Z±-dark. After hr svc avbl/posted on

door. CAUTION—Trees elevation 1235 ft located 150 ft S and 100

ft E of threshold Rwy 36. Rwy 36-50 ft drop-off 300 ft from thld

and 150 ft right and left of centerline. Rwy 18-36 opr

dusk-0330Z±; after 0330Z± ACTIVATE—CTAF. ACTIVATE PAPI

Rwys 18 and 36 and REIL Rwy 36—CTAF.

WEATHER DATA SOURCES: AWOS-3 121.125 (336) 789-2299.**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ GREENSBORO APP/DEP CON 124.35

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.**GREENSBORO (H) VORTAC** 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 315° 37.4 NM to fld. 879/03W. HIWAS.

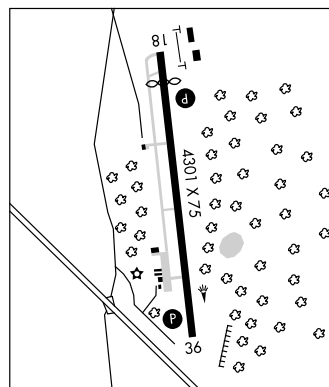
NDB (MHW) 223 AZW N36°22.86' W80°32.41' 360° 4.8

NM to fld. NOTAM FILE MWK. Unmonitored 2300-1200Z±.

CINCINNATI

L-26J

IAP



MT OLIVE MUNI (W40) 3 NE UTC-5(-4DT) N35°13.35' W78°02.25'

168 B S4 FUEL 100LL OX 1.2 NOTAM FILE RDU

RWY 05-23: H4251X75 (ASPH) S-20 MIRL

RWY 05: PAPI(P2L)—GA 3.5° TCH 40'. Trees.

RWY 23: PAPI(P2L)—GA 3.0° TCH 34'. Thld dsplcd 254'. Crops.

AIRPORT REMARKS: Attended 1300-2300Z†. CLOSED on major holidays, for svc after hrs call 252-234-7778. 24 hr self svc with credit card. -5' drainage ditch 100' left of centerline of Rwy 05. Low level military activity near arpt. For collision avoidance ctc Seymour AFB 119.7. ACTIVATE and incr ints MIRL Rwy 05-23 and PAPI Rwy 05 and Rwy 23.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ SEYMOUR JOHNSON APP/DEP CON 119.7 (1200-0430Z†)

WASHINGTON CENTER APP/DEP CON 135.5 (0430-1200Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

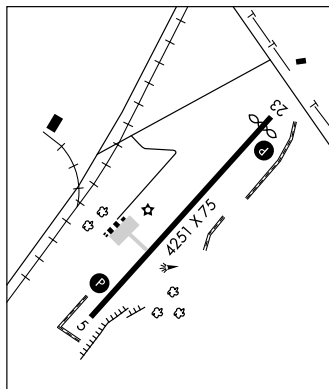
KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26'

W77°33.50' 254° 25.2 NM to fld. 106/05W.

CHARLOTTE

L-35B, 36F

IAP



NEW BERN N35°04.39' W77°02.70' NOTAM FILE EWN.

(L) VOR/DME 113.6 EWN Chan 83 at Coastal Carolina Rgnl. 10/08W.

VOR portion unusable 120°-160°. DME portion unusable 065°-330° byd 30 NM blo 3000'.

RCO 122.4 122.2 (RALEIGH RADIO) RCO 122.1R 113.6T (RALEIGH RADIO)

CHARLOTTE

L-35B

NEW BERN

COASTAL CAROLINA RGNL (EWN) 3 SE UTC-5(-4DT) N35°04.38' W77°02.58'

18 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE EWN

RWY 04-22: H6004X150 (ASPH-GRVD) S-30, D-62, DT-140 HIRL

RWY 04: REIL. PAPI(P4L).

RWY 22: REIL. PAPI(P4L). Trees.

RWY 14-32: H4000X150 (ASPH) S-28, D-45 MIRL

RWY 14: REIL. PAPI(P2L). Trees.

RWY 32: REIL. PAPI(P2L). Tree.

AIRPORT REMARKS: Attended 1000-0430Z†. CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24 hr PPR call arpt manager 252-638-8591. Rwy 14 PAPI OTS indef. ACTIVATE HIRL Rwy 04-22, REIL Rwy 04 and Rwy 22, MIRL Rwy 14-32 and REIL Rwy 14 and Rwy 32—CTAF. PAPI Rwys 04, 22, 14 and 32 opr 24 hrs.

WEATHER DATA SOURCES: ASOS 118.525 (252) 514-2086.

COMMUNICATIONS: CTAF 124.25

RCO 122.4 122.2 (RALEIGH RADIO)

RCO 122.1R 113.6T (RALEIGH RADIO)

Ⓡ CHERRY POINT APP/DEP CON 119.35 CLNC DEL 120.525

(0300-1100Z†)

NEW BERN TOWER 124.25 (1100-0300Z†)

GND CON 121.7 CLNC DEL 121.7

AIRSPACE: CLASS D svc 1100-0300Z† other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE EWN.

NEW BERN (L) VOR/DME 113.6 EWN Chan 83 N35°04.39' W77°02.70' at fld. 10/08W.

KATFI NDB (LOM) 362 EW N35°01.29' W77°04.77' 038° 3.6 NM to fld.

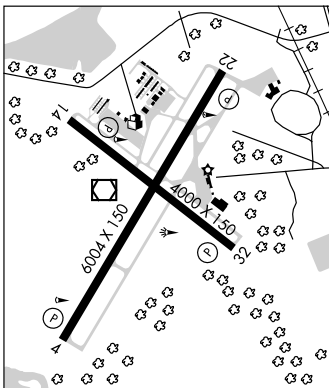
ILS 110.5 I-EWN Rwy 04. LOM KATFI NDB.

ASR (Mon-Fri 1100-0500Z†, Sat 1300-2100Z†, Sun 2000-0400Z†)

CHARLOTTE

H-9C, L-35B

IAP, AD



NEW RIVER MCAS (MCCUTCHEON FLD) (NCA)(KNCA) MC 3 S UTC-5(-4DT)CHARLOTTE
H-9C, L-35B
DIAP, AD

N34°42.51' W77°26.38'

26 B NOTAM FILE NCA Not insp.

RWY 05-23: H5114X150 (ASPH) PCN 80 F/B/W/T HIRL

RWY 05: SALSF. PAPI(P4L)—GA 3.0° TCH 47'. RWY 23: PAPI(P4L)—GA 3.0° TCH 37'.

RWY 01-19: H4790X150 (ASPH) PCN 80 F/B/W/T HIRL

RWY 01: SALSF. PAPI(P4R)—GA 3.0° TCH 45'. RWY 19: PAPI(P4L)—GA 3.0° TCH 41'.

MILITARY SERVICE: LGT Rwy 19 and Rwy 23 thld lgt vary from 1' to 15' from edge of the pavement. Non standard PCL all rws. VHF 120.0 3 clicks step 1, 5 clicks step 3, 7 clicks off. Expect 20 seconds delay for lgt to activate. ACTIVATE HIRL Rwy 01-19 and HIRL Rwy 05-23-120.0. **FUEL** J5 Fuel svc Mon-Fri 1300Z† until 1 hr prior to fld closure, clsd Sat, Sun and holidays.

TRAN ALERT PPR Mon-Thu 1300-0300Z†, Fri 1300-0000Z†, clsd Sat, Sun and holidays. For acft remaining overnight ctc host unit. No clsd fld authorized for tran acft.

MILITARY REMARKS: Opr Mon-Thu 1300-0600Z†, Fri 1300-0000Z†, clsd Sat, Sun and holidays. See FLIP AP/1 Supplement Arpt Remarks. **RSTD** PPR all transient acft (minimum 24 hr in advance). Call Base Ops DSN 752-6311/6316, C910-449-6311/6316. Twy A at mid-fld clsd to C-130 and larger acft. **CAUTION** Bird hazard Oct-Apr. Wildlife hazard on arpt, especially SS-SR. **TFC PAT** Tactical jets prohibited, non-vertical and short takeoff and landing only. **NS ABTMT** Touch and go not avbl after 0400Z†. **MISC** All acft with passenger/cargo/Distinguished Visitor ctc Base Ops 20 min prior to landing.

COMMUNICATIONS: ATIS 288.325 (Unmonitored, avbl during opr hrs only)

® **CHERRY POINT APP/DEP CON** 119.35 377.175

TOWER 120.0 360.2 323.25 **ARRIVAL** 124.85 279.575 (Mon-Thu 1300-0600Z†, Fri 1300-0000Z†, clsd Sat, Sun and holidays.) **GND CON** 121.8 254.275 **CLNC DEL** 239.025

PMSV METRO 244.775 (daily 1100-2200Z†) Unmonitored after 2200Z†. **NEW RIVER OPS** 253.3

AIRSPACE: CLASS D (Mon-Thu 1300-0600Z†, Fri 1300-0000Z†, clsd Sat, Sun and holidays, other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

(L) **TACAN** Chan 101 NCA (115.4) N34°42.43' W77°26.42' at fld. 74/8W. Unmonitored and ident off when fld not opr.

ILS/DME 111.1 I-NCA Rwy 01. GS unusable byd 4° left of course and 7° right of course.

ASR/PAR

COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.

NORTHEASTERN RGNL (See EDENTON)**NORTH WILKESBORO**

WILKS CO (UKF) 4NE UTC-5(-4DT) N36°13.37' W81°05.90'

1301 B S4 **FUEL** 100LL, JET A1+ OX 3,4 NOTAM FILE UKF Not insp.

RWY 01-19: H6200X100 (ASPH) S-45 MIRL 0.9% up N

RWY 01: MALSR. REIL. PAPI(P2L)—GA 3.0° TCH 44'. Trees.

RWY 19: REIL. PAPI(P2L)—GA 3.0° TCH 36'. Tree.

AIRPORT REMARKS: Attended dawn-dusk. Arpt unattended Thanksgiving and Christmas. PAEW east of Rwy 01-19 Mon-Fri SR-SS. Deer on and infov arpt. Rwy 01-19 no line of sight between rwy ends. MIRL Rwy 01-19 preset low ints; to increase ints and ACTIVATE MALSR Rwy 01; PAPI Rwy 01 and Rwy 19 and REIL Rwy 19 and twy lgt—CTAF.

WEATHER DATA SOURCES: AWOS-3 126.625 (336) 696-3788.

COMMUNICATIONS: CTAF/UNICOM 122.7

WILKSBORO RCO 122.4 (RALEIGH RADIO)

ATLANTA CENTER APP/DEP CON 125.15

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

BARRETT'S MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45

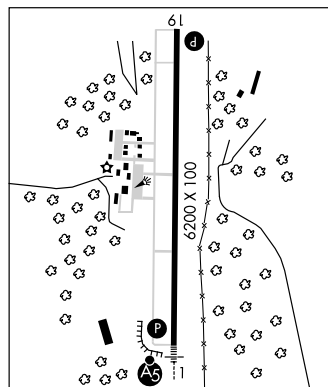
N35°52.13' W81°14.43' 024°22.3 NM to fld, 1880/06W.

WILKI NDB (MHW/LOM) 209 UKF N36°06.77' W81°05.89'

006°6.6 NM to fld.

ILS/DME 111.55 I-UKF Chan 52(Y) Rwy 01. Class IB. LOM

WILKI NDB.

CINCINNATI
H-9B, 126, L-250
IAP

OAK ISLAND**BRUNSWICK CO** (SUT) 1 NE UTC-5(-4DT) N33°55.78' W78°04.48'CHARLOTTE
L-35A
IAP

24 B S4 FUEL 100LL, JET A1+ NOTAM FILE SUT

RWY 05-23: H4301X100 (ASPH) S30 MIRL

RWY 05: PAPI(P2L)—GA 3.0° TCH 39'.

RWY 23: PAPI(P2L)—GA 3.0° TCH 39'. Thld displcd 300'. Road.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-4000 TODA-4300 ASDA-4200 LDA-4200

RWY 23: TORA-4300 TODA-4300 ASDA-4300 LDA-4000

AIRPORT REMARKS: Attended 1300-2300Z±. For svc after hrs call 910-278-9896. Fuel avbl 24 hr. self svc with credit card. Deer and birds on and invof arpt. Flight training and sight-seeing ops invof arpt. Banner towing ops on arpt summer months. Skydiving ops. ACTIVATE MIRL Rwy 05-23—CTAF. PAPI Rwy 05 and Rwy 23 on continuously.

WEATHER DATA SOURCES: AWOS-3 124.175 (910) 457-1710.**COMMUNICATIONS:** CTAF/UNICOM 123.0

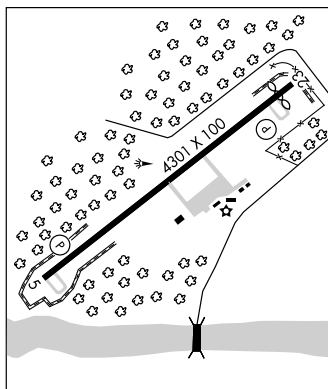
① WILMINGTON APP/DEP CON 118.25 (1100-0400Z±)

① WASHINGTON ARTCC APP/DEP CON 124.025 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE CRE.

GRAND STRAND (L) VORTAC 117.6 CRE Chan 123 N33°48.83'

W78°43.47' 084° 33.2 NM to fld. 20/03W.

**OAK RIDGE****DS BUTLER FARM AND AIRFIELD** (N83) 2 NW UTC-5(-4DT) N36°11.71' W80°00.32'

CINCINNATI

950 NOTAM FILE RDU

RWY 01-19: 2000X60 (TURF)

RWY 01: Trees.

RWY 19: Trees.

AIRPORT REMARKS: Unattended. Due to sloping rwy-tkfs Rwy 19 and lrgs Rwy 01. 70' trees along both sides of rwy 70' from centerline. Helicopter activity .5 NM west of Rwy 01-19 centerline.

COMMUNICATIONS: CTAF 122.9**OCEAN ISLE BEACH****ODELL WILLIAMSON MUNI** (6ØJ) 1 N UTC-5(-4DT) N33°54.51' W78°26.20'CHARLOTTE
L-35A

32 FUEL 100LL NOTAM FILE RDU

RWY 06-24: H4000X75 (ASPH) S-12 MIRL

RWY 06: PAPI(P2L)—GA 3.25° TCH 42'. Tree.

RWY 24: PAPI(P2L)—GA 2.45° TCH 35'. Thld displcd 200'.

Trees.

AIRPORT REMARKS: Attended May-Sep 1300-2200Z±, Oct-Apr Sat-Sun 1400-2200Z± Mon-Fri on call 910-309-2983. 24 hr self svc fuel with credit card. 24 hr pilot lounge. Parallel twy beyond ramp is closed. Rwy 06 has 48' marked transitional powerline +/- 100' from threshold. ACTIVATE MIRL Rwy 06-24—CTAF.

COMMUNICATIONS: CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE CRE.

GRAND STRAND (L) VORTAC 117.6 CRE Chan 123 N33°48.83' W78°43.47' 071° 15.5 NM to fld. 20/03W.

OCRACOE ISLAND (W95) 1 E UTC-5(-4DT) N35°06.07' W75°57.96'CHARLOTTE
L-35C
IAP

5 B TPA-805(800) NOTAM FILE RDU

RWY 06-24: H2999X60 (ASPH) S-30

RWY 06: Brush.

RWY 24: Brush.

AIRPORT REMARKS: Unattended. Arpt CLOSED 30 minutes after SS until 30 minutes before SR. Ngt tkf prohibited. Flocks of seagulls on and near rwy around standing water after heavy rains. Rwy subject to flooding after heavy rain. High speed low level military opr invof arpt. Rwy safety area is loose sand, not suitable for acct. +20 ft sand dune 300 ft NE Rwy 24 thld on centerline. Arpt is within Cape Hatteras National Seashore. Maintain 2000 ft vertical and horizontal distance from seashore beaches. Key code access to pilot lounge.

COMMUNICATIONS: CTAF 122.9

CHERRY POINT APP/DEP CON 119.75 (North)

RADIO AIDS TO NAVIGATION: NOTAM FILE EWN.

NEW BERN (L) VOR/DME 113.6 EWN Chan 83 N35°04.39' W77°02.70' 096° 53.2 NM to fld. 10/08W.

HELIPAD H1: H100X100 (CONC) PERIMETER LGTS.

HELIPORT REMARKS: Helipad for emergency operations only. H1 best approach from NE 10:1 or SW 10:1 ACTIVATE Helipad perimeter lights only—CTAF.

ODELL WILLIAMSON MUNI (See OCEAN ISLE BEACH)

OXFORD**HENDERSON—OXFORD** (HNZ) 4 NE UTC-5(-4DT) N36°21.70' W78°31.75'526 B S4 FUEL 100LL, JET A1+ NOTAM FILE HNZ
RWY 06-24: H5002X97 (ASPH) S-30 MIRL 0.4% up SW

RWY 06: REIL. PAPI(P2L)—GA 3.3° TCH 26'. Trees.

RWY 24: PAPI(P2L)—GA 3.45° TCH 33'. Trees.

AIRPORT REMARKS: Attended 1300-2300Z†, CLOSED Thanksgiving and Christmas days. Arpt phone number is 919-693-5769; for after hours svc call 919-603-0499. Rwy 24 has 30' unmarked p-line 1000' from thld on centerline. Rwy 24 has 60' drop off 325' from thld and 90' left and right from centerline. Rwy 06 200' from thld on both sides of centerline 6' drop off. Trees east of the arpt obscure the rotating bcn. MIRL Rwy 06-24 ops dusk-0400Z†; after 0400Z† ACTIVATE—CTAF. ACTIVATE REIL Rwy 06, PAPI Rwy 06 and Rwy 24—CTAF.**WEATHER DATA SOURCES:** AWOS-3 118.625 (919) 693-9516.**COMMUNICATIONS:** CTAF/UNICOM 122.8

④ RALEIGH APP/DEP CON 132.35 GCO 135.075 (RALEIGH APP)

RADIO AIDS TO NAVIGATION: NOTAM FILE DCA.

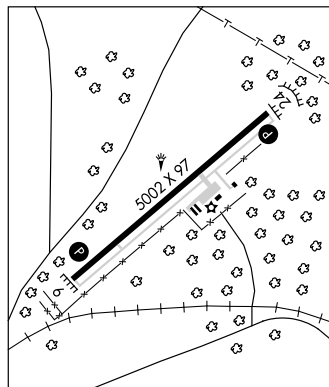
SOUTH BOSTON (L) VORTAC 110.4 SBV Chan 41 N36°40.50'

W79°00.87' 134° 30.1 NM to fld. 530/05W.

HUNTSBORO NDB (MHW) 271 HXO N36°18.03'

W78°37.12' 057° 5.7 NM to fld. NOTAM FILE RDU.

ILS 109.75 I-HNZ Rwy 06. LOC only.

WASHINGTON
H-9C, 12H, L-366
IAP**PENDY** N34°42.98' W78°00.22' NOTAM FILE RDU.

NDB (MHW) 379 ACZ at Henderson Fld.

CHARLOTTE
L-35B**PERSON CO** (See ROXBORO)**PIEDMONT TRIAD INTL** (See GREENSBORO)**PINEHURST/SOUTHERN PINES****MOORE CO** (SOP) 3 N UTC-5(-4DT) N35°14.26' W79°23.33'

455 B S4 FUEL 100LL, JET A OX3 Class IV, ARFF Index A NOTAM FILE SOP

CHARLOTTE
H-9C, 12G, L-35A, 36F
IAP

RWY 05-23: H5503X150 (ASPH-GRVD) S-30 D-58. HIRL 0.4% up SW

RWY 05: MALS. VASI(V4L)—GA 3.0° TCH 48'.

RWY 23: REIL. VASI(V4L)—GA 3.0° TCH 39'. Tree.

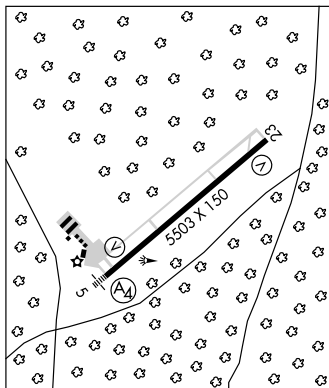
AIRPORT REMARKS: Attended 1300-0100Z†. After 0000Z† ctc phone number posted on General Aviation entry way. Bird activity on and invof arpt Apr-Oct. PPR for unscheduled air carrier ops with more than 30 passenger seats; call arpt manager 910-692-3212. 12 hr PPR for jet ops conducted 0400-1100Z†, ctc airport manager 910-692-3212. Noise abatement procedures in effect except in emergencies. Avoid overfly of residential area NE of arpt. Multiengine acft departing rwy 05 or 23 maintain heading until reaching 1500' MSL before turning. ACTIVATE HIRL Rwy 05-23, REIL Rwy 23 and twy lgts—CTAF.**WEATHER DATA SOURCES:** AWOS-3 127.575 (910) 692-4287.**COMMUNICATIONS:** CTAF/UNICOM 123.05

④ FAYETTEVILLE APP/DEP CON 127.8 CLNC DEL 127.0

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93'

W79°35.28' 085° 9.9 NM to fld. 590/03W.

ILS 111.5 I-SOP Rwy 05. Class IB. Loc unmonitored
0100-1300Z†. Localizer unusable byd 30° left of centerline.

PINK HILL (4W9) 1 E UTC-5(-4DT) N35°03.04' W77°44.17'

CHARLOTTE

144 B NOTAM FILE RDU

RWY 01-19: 2800X85 (TURF) LIRL (NSTD)

RWY 01: Thld dsplcd 200'. Trees.

RWY 19: Thld dsplcd 200'. Fence.

AIRPORT REMARKS: Unattended. Sheep on and invof arpt. No line of sight between rwy ends. Arpt is under several military low level routes. Jet acft cross arpt under 500 feet in excess of 200 knots. +5' grape vineyards 50' left and right of centerline first half of Rwy 19. 65' trees 50' from rwy edges both sides south half of rwy. 40' trees 50' from E edge N half of rwy. Rwy 01-19 marked with yellow cones, dsplcd thlds marked with 3 cones each side rwy. Rwy 01-19 NSTD LIRL; not FAA approved L-800 series. No thld lghts. LIRL Rwy 01-19 OTS indef.

ACTIVATE LIRL Rwy 01-19 and rotating bcn—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

PITT-GREENVILLE (See GREENVILLE)

PK AIRPARK (See RAEFORD)

PLYMOUTH

DONALD'S AIR PARK INC (7NC) 8 SE UTC-5(-4DT) N35°44.01' W76°40.18'

CHARLOTTE

18 S5 FUEL JET A1+ NOTAM FILE RDU

Not insp.

RWY 04-22: 4000X100 (TURF) LIRL (NSTD)

RWY 04: Trees.

RWY 22: Thld dsplcd 800'.

AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z, Sun 1800-2200Z. Heavy agricultural acft ops Mar-Nov. A and P avbl. Rwy 22 has marked pline at thld. Rwy 04-22 NSTD LIRL due to spacing of rwy lghts. ACTIVATE NSTD LIRL Rwy 04-22 call 252-809-9010.

COMMUNICATIONS: CTAF 122.9

PLYMOUTH MUNI (PMZ) 2 S UTC-5(-4DT) N35°48.65' W76°45.50'

CHARLOTTE

39 B FUEL 100LL, JET A1+ NOTAM FILE RDU

H-9C, L-35C

RWY 03-21: H5500X75 (ASPH) S-25 MIRL

IAP

RWY 03: REIL. PAPI(P2L)—GA 4.0° TCH 30'. Trees.

RWY 21: REIL. PAPI(P2L)—GA 4.0° TCH 30'. Trees.

AIRPORT REMARKS: Attended 1300-2200Z. For fuel after hrs call 252-793-9801. Deer activity invof arpt. Arpt located 4.3 NM W of military restricted area. Safety problem due to fast military acft crossing arpt below 3000' MSL enroute to restricted area. Crossings are unannounced. There are 17 based acft located adjacent to the arpt with twy access to ramp. Rwy 21 PAPI unusable byd 8° right of centerline. ACTIVATE MIRL Rwy 03-21, REIL Rwy 03 and Rwy 21 and PAPI Rwy 03 and PAPI Rwy 21—CTAF.

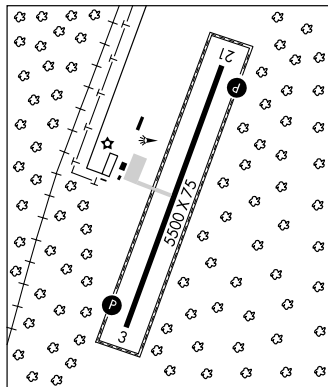
COMMUNICATIONS: CTAF/UNICOM 122.8

WASHINGTON CENTER APP/DEP CON 135.5

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

COFIELD (L) VORTAC 114.6 CVI Chan 93 N36°22.37'

W76°52.29' 180° 34.1 NM to fld. 70/09W.



POPE AFB (POB)(KPOB) AF 12 NW UTC-5(-4DT) N35°10.25' W79°00.87'

CHARLOTTE

217 B TPA—See Remarks Class I, ARFF Index Ltd. NOTAM FILE POB Not insp.

H-9C, 12G, L-36F

RWY 05-23: H7501X150 (PEM-GRVD) PCN 58 F/B/W/T HIRL 0.4% up SW

DIAP, AD

RWY 05: REIL. PAPI. **RWY 23:** ALSF1. PAPI. Rgt tfc.

RWY 049-229: H3000X60 (ASPH) PCN 27 F/A/W/T LIRL

RWY 049: Rgt tfc.

MILITARY SERVICE: L&T HIRL located 16' from rwy edge. **JASU** (A/M32A-86) 1(MA-1A) **FUEL J8**

FLUID SP LPOX LOX **OIL** 0-128—In can only, -133-148.

MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Remark. **RSTD** Phase II BASH 1 Sep-30 Nov due to increased migratory bird activity. Peak activity occurs 1 hr of SR and SS. Circle apch to Rwy 05 not authorized for formation during IMC. 24 hr PPR ctc AMOPS DSN 424-6508/09/10. All inbound acft with VIP ctc Comd Post 30 min out. Ctc Pope AMOPS with 3 hrs notice for CSTMS and AG. PPR except Distinguished Visitor acft DSN 424-6508/09/10. PPR for AMC/explosive loaded acft DSN 424-7388, during normal duty hr, 24 hr prior notice required. Category E apch minimum unavbl due R5311 located 2.5 NM dep end Rwy 23. Twy leading to Golden Knights Ramp clsd to USAF C130 and larger acft due to twy width less than 75'. AMC/AFRC acft opr restricted during Bird Watch Condition Moderate (tkf or ldg permission only when dep and arr route avoid identified bird activity. No local IFR/VFR tfc pat activity) and Severe (tkf and ldg prohibited without OG/CC approval), ctc AMOPS for current Bird Watch Condition code. Expect full stop ldg during intense training periods. Parking spot P-13 clsd except for contingency opr. **CAUTION** Dense air tfc all quad, all alt. ILS glide slope antenna 30' high, 1111' from apch end and 400' left of centerline Rwy 23. Frequent Low-Level Wind Shear sfc—2000', 0800-1300Z. Rwy 23 dep and Rwy 05 arr, avoid R5311, 2.5 NM west of Pope. Ctc Pope Twr for turns thru Sector IV. Twr 417' located 5780' bearing 205° from dep end Rwy 23/apch end Rwy 05. Hill 313 located 1297' bearing 170° from dep end Rwy 23/apch end Rwy 05. Twr 430' located 6878' bearing 220° from dep end Rwy 23/apch end Rwy 05. Acft should exercise extreme caution when taxiing on the Green and Yellow Ramps due to wing tip clnc. Uncontrolled vehicles on twy and ramps. Afd lgtg intermittent between SS and SR due to local ngt vision device training, non-participating acft ctc control twr incr lgtg. **TFC PAT** TPA—Overhead 2000(1783), Rwy 23 enter 3 NM initial, rgt break. No overhead Rwy 05. Portion of overhead not visible from twr. Rectangular 1500(1283). Rwy 05 left tfc. Dep maintain 1500' or blo until dep end of rwy. **CSTMS/AG/IMG** CSTMS, AG avbl, 3 hr prior notice rqr. **MISC** AMOPS DSN 424-6508/09/10, Afd mgr DSN 424-4546/6508, C910-394-6508/4546, fax extension 6516/6520. All acft opr on AMC mission, include JA/ATT will coordination rqr/park with 43 AW/OSO DSN 424-7388 fax extension 7380. All inbound acft opr on AMC mission and all acft requiring IMT packages ctc Pope Comd Post. First 1000' Rwy 23 and first 300' Rwy 05 are concrete. Mid 6200' asphalt. 1000' keeled overrun, either end, may be used to begin tkf and for ldg rollout. Ctc cti twr with intention to back taxi. When back taxiing, turning radius is located at end of sfc. See US Terminal Low IAPs, Airport Diagram. Engine runs will normally be conducted on Twy A and Twy M run-up areas. Romeo row will not be used for engine runs above idle speed. 60 day notice required for utilization of Pope AFB ramps for exercises. Ctc Pope AFB Enroute Ops, DSN 424-7388 for coordination and scheduling. Rwy 05-23 grooved. All inbound acft ctc twr on UHF. Rwy distance marker not avbl east side of rwy. Standard USAF RSRs applied except C-130 5000' during daytime. Request for concurrent servicing should be made to Pope Comd Post and approval is dependent upon mission need, station workload, and Crash/Fire/Rescue avbl. All acft carrying explosive cargo are rqr to pass the explosive class and the net explosive wt (NEW) to Pope Comd Post at inbound call. Inbound/outbound acft requiring IMT packages, ctc Pope Comd Post. Assault Strip panels are all international orange in color. All acft with non-aircrew passenger, ctc ATOC DSN 424-7303 upon arr and prior to dep. All acft rqr CSTMS and carrying personnel to include crew members that are not US mil (US mil defined as active duty, reserves or guard on active duty) must ctc Pope Comd Post at DSN 424-9000 or C(910) 394-9000 no later than five hrs prior to arrival to assure non-US cstms agent is in place upon arrival and excessive delays are avoided. This action is rqr despite prearrangements made with cstms officials. No COMSEC material avbl. Tran aircrews should plan to arrive with appropriate amount of COMSEC to complete entire mission. Storage avbl at airfield mgt up to and including Secret. All Tran aircrews shall store Top Secret material with 43 OSS/IN during duty hours. After normal duty hours, coordinate with Wing Command Post for proper storage of Top Secret material. Primary wx sensors automated. During periods of back-up/manual prevailing visibility may not be representative of entire afd due to obstacle from observation point. Observation point obstacle 330°-090°.

COMMUNICATIONS: D-ATIS 132.3 353.725 **PTD** 372.2

(R) FAYETTEVILLE APP/DEP CON 125.175 397.85 (271°-090°) 133.0 295.0 (091°-270°)

TOWER 135.025 291.1 236.6X **GND CON** 124.55 275.8 **CLNC DEL** 275.8

POPE COMD POST 134.1X 257.1 381.3 **PMSV METRO** 344.6 Automated AN/FMQ-19 in use. Opr Mon-Thu

1000-0300Z, Fri 1000-2200Z or end of local flying. Wx briefing DSN 424-6543/44. Full svc avbl 26 ows Barksdale AFB DSN 781-4775, C318-456-4775.

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AIRSPACE: CLASS C svc etc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE POB.

(L) TACAN Chan 85 POB (113.8) N35°10.11' W79°01.18' at fld. 240/7W. No NOTAM MP Thu 1300–1600Z†.

TACAN azimuth unusable:

byd 30 NM blo 4,000'

136°–151°

186°–191°

331°–339 ° byd 17 NM

340°–358° byd 17 NM blo 4,000'

NDB (HW) 338 POB N35°13.61' W78°57.26' 228° 4.5 NM to fld. No NOTAM MP Fri 1300–1400Z†.

ILS 110.9 I-POB Rwy 23. No NOTAM MP Localizer Mon 1300–1600Z†, glide slope Tue 1300–1600Z†.

ATC protects FAA-defined ILS critical zone.

MLS Y Chan 622 M-PPN Rwy 23. No NOTAM MP Fri 1300–1600Z†. Unusable 268°–188° byd 15 NM and 268°–188° blo 1.8°.

POTTERS HILL

EAGLES NEST (6N9) 0 SW UTC–5(–4DT) N34°58.93' W77°41.90'

CHARLOTTE

115 NOTAM FILE RDU

RWY 13–31: 1850X75 (TURF)

RWY 13: Trees.

RWY 31: Road.

AIRPORT REMARKS: Unattended. VFR only. Rwy 13 +6' bushes 10' from thld on centerline. Rwy 13–31 marked with yellow cones. Arpt is under several military VR routes. Jet acft cross arpt under 500' in excess of 200 knots.

COMMUNICATIONS: CTAF 122.9

RAEFORD

PK AIRPARK (5W4) 3 NE UTC–5(–4DT) N35°01.19' W79°11.46'

CHARLOTTE

304 B FUEL 100LL, JET A NOTAM FILE RDU

L–35A, 36F

RWY 04–22: H3402X60 (ASPH) S–30 MRL 0.4% up NE

IAP

RWY 04: Trees.

RWY 22: Trees. Rgt tfc.

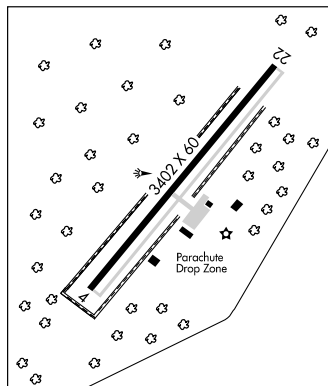
AIRPORT REMARKS: Attended 1300Z†–dusk. CAUTION —Low flying military acft in area; arpt located within a military ops area. Frequent parachute activity to target 300 ft SE of terminal apron. Acft in vicinity monitor 123.5. Monitor frequency 123.5 for parachute jumping activity. Fly 1 mile wide down wind leg to prevent conflicts with parachute jumping activity (Drop Zone SE from rwy.) Contact FSS prior to landing.

COMMUNICATIONS: CTAF/UNICOM 123.0

® FAYETTEVILLE APP/DEP CON 127.8

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 282° 15.7 NM to fld. 179/04W.



RALEIGH

TRIPLE W (5W5) 11 SW UTC–5(–4DT) N35°37.22' W78°42.02'

CHARLOTTE

244 B S4 NOTAM FILE RDU

L–35B, 36F

RWY 16–34: H3004X40 (ASPH) LIRL (NSTD)

RWY 16: Trees.

RWY 34: Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 16–34 PAEW parallel twy. All acft over 6500 lbs. prohibited. Twr (500 AGL/826' MSL) approximately 1.75 NM NW of arpt. Be alert for rising terrain all quadrants. Rwy 16–34 has 4' dropoff 20' from pavement edge all sides. Twy not lgtd. 4 foot dropoff taxiway edge both sides—S end. Rwy 16–34 NSTD LIRL lgts 15 ft from edge of rwy; Rwy 16 thld lgts 150' from thld, Rwy 34 thld lgts 460' from thld. ACTIVATE LIRL—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan 119 N35°52.35' W78°47.00' 169° 15.6 NM to fld. 429/04W.

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AIRSPACE: CLASS C svc etc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE POB.

(L) TACAN Chan 85 POB (113.8) N35°10.11' W79°01.18' at fld. 240/7W. No NOTAM MP Thu 1300–1600Z†.

TACAN azimuth unusable:

byd 30 NM blo 4,000'

136°–151°

186°–191°

331°–339 ° byd 17 NM

340°–358° byd 17 NM blo 4,000'

NDB (HW) 338 POB N35°13.61' W78°57.26' 228° 4.5 NM to fld. No NOTAM MP Fri 1300–1400Z†.

ILS 110.9 I-POB Rwy 23. No NOTAM MP localizer Mon 1300–1600Z†, glide slope Tue 1300–1600Z†.

ATC protects FAA-defined ILS critical zone.

MLS Y Chan 622 M-PPN Rwy 23. No NOTAM MP Fri 1300–1600Z†. Unusable 268°–188° byd 15 NM and 268°–188° blo 1.8°.

POTTERS HILL

EAGLES NEST (6N9) 0 SW UTC–5(–4DT) N34°58.93' W77°41.90'

CHARLOTTE

115 NOTAM FILE RDU

RWY 13–31: 1850X75 (TURF)

RWY 13: Trees. RWY 31: Road.

AIRPORT REMARKS: Unattended. VFR only. Rwy 13 +6' bushes 10' from thld on centerline. Rwy 13–31 marked with yellow cones. Arpt is under several military VR routes. Jet acft cross arpt under 500' in excess of 200 knots.

COMMUNICATIONS: CTAF 122.9

RAEFORD

PK AIRPARK (5W4) 3 NE UTC–5(–4DT) N35°01.19' W79°11.46'

CHARLOTTE

304 B FUEL 100LL, JET A NOTAM FILE RDU

L–35A, 36F

RWY 04–22: H3402X60 (ASPH) S–30 MRL 0.4% up NE

IAP

RWY 04: Trees. RWY 22: Trees. Rgt tfc.

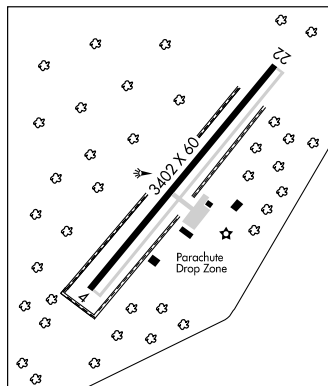
AIRPORT REMARKS: Attended 1300Z†–dusk. CAUTION —Low flying military acft in area; arpt located within a military ops area. Frequent parachute activity to target 300 ft SE of terminal apron. Acft in vicinity monitor 123.5. Monitor frequency 123.5 for parachute jumping activity. Fly 1 mile wide down wind leg to prevent conflicts with parachute jumping activity (Drop Zone SE from rwy.) Contact FSS prior to landing.

COMMUNICATIONS: CTAF/UNICOM 123.0

® FAYETTEVILLE APP/DEP CON 127.8

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 282° 15.7 NM to fld. 179/04W.



RALEIGH

TRIPLE W (5W5) 11 SW UTC–5(–4DT) N35°37.22' W78°42.02'

CHARLOTTE

244 B S4 NOTAM FILE RDU

L–35B, 36F

RWY 16–34: H3004X40 (ASPH) LIRL (NSTD)

RWY 16: Trees. RWY 34: Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 16–34 PAEW parallel twy. All acft over 6500 lbs. prohibited. Twr (500 AGL/826' MSL) approximately 1.75 NM NW of arpt. Be alert for rising terrain all quadrants. Rwy 16–34 has 4' dropoff 20' from pavement edge all sides. Twy not lgtd. 4 foot dropoff taxiway edge both sides—S end. Rwy 16–34 NSTD LIRL lgts 15 ft from edge of rwy; Rwy 16 thld lgts 150' from thld, Rwy 34 thld lgts 460' from thld. ACTIVATE LIRL—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan 119 N35°52.35' W78°47.00' 169° 15.6 NM to fld. 429/04W.

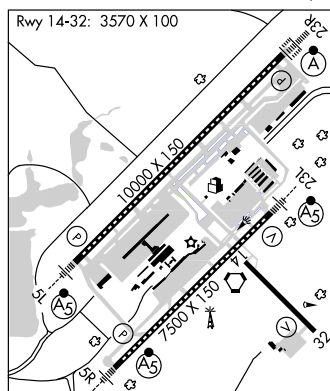
RALEIGH-DURHAM INTL (RDU) 9 NW UTC-5(-4DT) N35°52.66' W78°47.25'

435 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class I, ARFF Index D

NOTAM FILE RDU

Rwy 05L-23R: H1000X150 (CONC-WC) S-30, D-190, ST-175, DT-355, DDT-750 HIRL CL**Rwy 05L:** MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 72'. 0.6% up.**Rwy 23R:** ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 68'. Rgt tfc.**Rwy 05R-23L:** H7500X150 (ASPH-GRVD) S-30, D-176, ST-175, DT-335, DDT-750 HIRL CL 0.4% up NE**Rwy 05R:** MALSR. PAPI(P4L)—GA 3.0° TCH 55'. Rgt tfc.**Rwy 23L:** MALSR. TDZL VASI(V4L)—GA 3.0° TCH 55'.**Rwy 14-32:** H3570X100 (ASPH) S-12, MIRL**Rwy 32:** REIL. VASI(V4L)—GA 3.5° TCH 29'. Trees.**RUNWAY DECLARED DISTANCE INFORMATION****Rwy 05L:** TORA-10000 TODA-10000 ASDA-10000 LDA-10000**Rwy 05R:** TORA-7500 TODA-7500 ASDA-7500 LDA-7500**Rwy 23L:** TORA-7500 TODA-7500 ASDA-7500 LDA-7500**Rwy 23R:** TORA-10000 TODA-10000 ASDA-10000 LDA-10000**AIRPORT REMARKS:** Attended continuously. Arpt CLOSED to airships.

Four engine acft with wingspan over 171' and group V must use Rwy 05L-23R. Rwy 05L-23R southwest 3000' ungrooved and northeast 3000' ungrooved. Crane 75' AGL .76 NM from AER 05R. PPR for all military acft and unscheduled charter flights with 30 or more passengers. Military practice approaches require approval 24 hours prior notice required. Contact arpt ops. Rwy 05R touchdown and rollout rwy visual range avbl. Rwy 23L touchdown and rollout rwy visual range avbl. Touchdown rwy visual range and rwy visibility value available Rwy 23L. Twy F between Twy T1 and T4 clsd to acft with wingspan greater than 135'. No jet engine maintenance runs between 0500-1100Z. National Guard 24 hr PPR for jet acft and transit military acft—919-840-2111. No approval required for pushback at terminal gates unless acft rgrs use of twy. Ctc ATC prior to pushing onto twy. Twy E behind south Cargo 4 and Twy J behind corporate hangars not visible from twr. Visibility of bcn shielded to the North. Flight Notification Service (ADCUS) avbl.

WEATHER DATA SOURCES: ASOS (919) 840-0816. LLWAS. TDWR.**COMMUNICATIONS:** D-ATIS 123.8 UNICOM 122.95**RALEIGH FSS** (RDU) on arpt.**RCO** 122.65 122.45 122.2 (RALEIGH RADIO)**(R) APP CON** 128.3 (230°-024°) 124.95 (025°-229°)**(R) DEP CON** 132.35 (230°-024°) 125.3 (025°-229°)**TOWER** 119.3 (West) Rwy 05L-23R 127.45 (East) Rwy 05R-23L and Rwy 14-32**GND CON** 121.9 (East) Rwy 05R-23L and Rwy 14-32 121.7 (West) Rwy 05L-23R **CLNC DEL** 120.1**AIRSPACE:** CLASS C svc continuous ctc **APP CON****RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**(H) VORTACW** 117.2 RDU Chan 119 N35°52.35' W78°47.00' at fld. 429/04W.**LEEVEY NDB (HW/LOM)** 350 LE N35°55.63' W78°43.32' 234° 4.4 NM to fld.**GREON NDB (LOM)** 382 RD N35°47.82' W78°52.98' 051° 6.7 NM to fld. Unmonitored.**ILS/DME** 109.1 I-GKK Chan 28 Rwy 05L. Class IA.**ILS** 109.5 I-RDU Rwy 05R. Class IE. LOM GREON NDB. LOM unmonitored.**ILS** 108.5 I-LEI Rwy 23L. Class IA. LOM LEEVEY NDB. LOC unusable within 2.0 NM from thld.**ILS/DME** 111.7 I-DMP Chan 54 Rwy 23R. Class IIE. Inner Marker unmonitored. LOC unusable byd 20° right of course.**RAPIDS** N36°26.46' W77°42.50' NOTAM FILE RZZ.**NDB (MHW)** 407 RZZ at Halifax Co.**WASHINGTON**

L-35C, 36G

REENO N36°04.26' W80°10.01' NOTAM FILE INT.**NDB (LOM)** 317 IN 332° 4.6 NM to Smith-Reynolds. (Unmonitored when tower closed).**CINCINNATI**

L-25D, 36F

REIDSVILLE**ROCKINGHAM CO NC SHILOH** (SIF) 8 NW UTC-5(-4DT) N36°26.23' W79°51.06'

CINCINNATI

694 B S4 FUEL 100LL, JET A1+ OX 2,3 NOTAM FILE SIF
RWY 13-31: H5199X100 (ASPH) S-12.5, D-24 MIRL 0.5% up NWH-9B, 126, L-26J, 36F
IAP

RWY 13: PAPI(P2L)—GA 4.0° TCH 42'. Thld displcd 200'. Ground.

RWY 31: REIL. PAPI(P2L)—GA 4.0° TCH 41'. Ground.

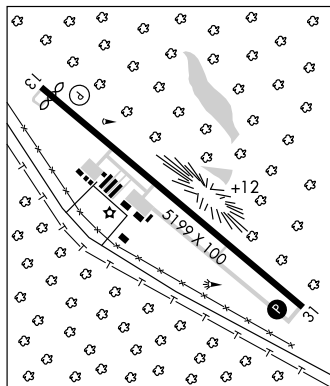
AIRPORT REMARKS: Attended 1300-2300Z†. Arpt unattended Christmas, New Years and Thanksgiving Day. Fuel avbl 24 hrs self svc. Deer on and infov arpt. 120 ft trees 1800 ft from Rwy 13 thld. ACTIVATE MIRL Rwy 13-31; PAPI Rwy 31 and REIL Rwy 31—CTAF.**WEATHER DATA SOURCES:** AWOS-3 119.775 (336) 573-3677.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ GREENSBORO APP/DEP CON 124.35

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74' W79°58.58' 018° 24.2 NM to fld. 879/03W. HIWAS.

SLAMMER NDB (MHW) 423 SIF N36°22.90' W79°45.77' 315° 5.4 NM to fld. NOTAM FILE RDU.

**WARF** (6A5) 3 SW UTC-5(-4DT) N36°19.01' W79°42.49'

CINCINNATI

820 NOTAM FILE RDU

RWY 17-35: 2550X150 (CONC-TURF) S-8 LIRL (NSTD)

RWY 17: Trees. RWY 35: Trees.

AIRPORT REMARKS: Unattended. Deer on and infov arpt. For LIRL Rwy 17-35 call 336-349-2195. Rwy 17-35 NSTD LIRL, no thld lights on north end. Only south 2375' of rwy lighted. Most edge lights OTS indef. Rwy 17-35 concrete portion 900X18 at North end. Rwy 35 has uphill grade. Rwy 35 has more than 50' dropoff/downslope 35' from thld both sides.**COMMUNICATIONS:** CTAF 122.9**RICHMOND CO** (See ROCKINGHAM)**ROANOKE RAPIDS****HALIFAX-NORTHAMPTON REGN** (IXA) 8 S UTC-5(-4DT) N36°19.79' W77°38.11'

WASHINGTON

145 B FUEL 100LL, JET A1+ NOTAM FILE RDU

H-9C, 12H, L-35C, 36G
IAP

RWY 02-20: H5500X100 (ASPH) S-45, D65 HIRL

RWY 02: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Trees.

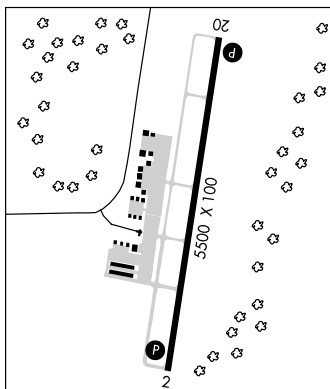
RWY 20: REIL. PAPI(P2L)—GA 3.0° TCH 24'. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z†, Sun 1700-2200Z†. 24 hrs self svc with credit card. For svc after hrs contact 252-673-2793. CLOSED New Years Day, Easter, Jul 4th, Thanksgiving, Christmas. Birds on and infov arpt. PAEW on and infov arpt for parallel twy construction. 24 hrs access to pilots lounge, etc 252-673-2793 for code. ACTIVATE HIRL Rwy 02-20 and PAPI Rwy 02 and Rwy 20, REIL Rwy 02 and Rwy 20—CTAF.**WEATHER DATA SOURCES:** ASOS 119.975 (252) 583-3446.**COMMUNICATIONS:** CTAF/UNICOM 123.075

WASHINGTON CENTER APP/DEP CON 132.02

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61' W77°42.23' 014° 21.4 NM to fld. 70/50W.

**ROBESON** N34°36.81' W79°03.59' NOTAM FILE LBT.

CHARLOTTE

NDB (MHW) 359 RSY at Lumberton Muni. NDB unmonitored 0100-1300Z† Mon-Fri, 0000-1500Z† L-24J, 35A, 36E
Fri-Sat, 0000-1300Z† Sun-Mon.

ROCKINGHAM**RICHMOND CO** (RCZ) 3 S UTC-5(-4DT) N34°53.48' W79°45.58'

358 B FUEL 100LL, A1+ NOTAM FILE RDU

RWY 13-31: H5000X100 (ASPH) S-30 MIRL

RWY 13: PAPI(P2L)-GA 3.15° TCH 34. Road.

RWY 31: REIL. PAPI(P2L)-GA 3.15° TCH 26'. Thld dspcd 200'. Railroad.

RWY 04-22: 3009X500 (TURF)

RWY 04: Trees.

RWY 22: Trees.

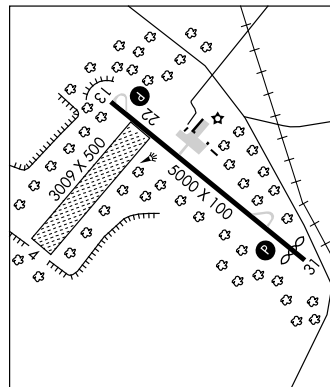
AIRPORT REMARKS: Attended Mon-Sat 1230-2230Z. For arpt attendant nghts and Sun call 910-895-6691. 100LL 24hr self-svc with credit card. Rwy 04-22 CLOSED to all turbine engine acft. Rwy 13 inadequate safety area 60 ft drop off 125 ft from thld both sides. ACTIVATE MIRL Rwy 13-31 and PAPI Rwy 13 and 31 and REIL Rwy 31-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.775 (910) 997-4093.**COMMUNICATIONS:** CTAF/UNICOM 122.8① **FAYETTEVILLE APP/DEP CON 127.8****RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 207° 21.2 NM to fld. 590/03W.

ROSCOE NDB (MHW) 375 RCZ N34°51.16' W79°41.62' 312° 4.0 NM to fld.

CHARLOTTE
H-9C, 12G, L-25E, 35A, 36E
IAP

**ROCKINGHAM CO HELIPORT** (See EDEN)**ROCKINGHAM CO NC SHILOH** (See REIDSVILLE)**ROCKY MOUNT-WILSON RGNL** (RWI) 7 SW UTC-5(-4DT) N35°51.38' W77°53.52'

159 B S4 FUEL 100LL, JET A OX 1 Class IV, ARFF Index A NOTAM FILE RWI

RWY 04-22: H7100X150 (ASPH-GRVD) S-62, D-75, ST-95, DT-140 HIRL

RWY 04: MALSR. PAPI(P4L)-GA 3.0° TCH 56'.

RWY 22: REIL. PAPI(P4L)-GA 3.0° TCH 45'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 04: TORA-7100 TODA-7100 ASDA-7100 LDA-7100

RWY 22: TORA-7100 TODA-7100 ASDA-6900 LDA-6900

AIRPORT REMARKS: Attended Mon-Fri 1100-0300Z, Sat-Sun 1200-0300Z. CLOSED to air carrier opr with more than 30 passenger seats except with 24 hr PPR call arpt manager 252-446-7057. ACTIVATE HIRL Rwy 04-22; MALSR Rwy 04; and REIL Rwy 22-CTAF.

WEATHER DATA SOURCES: ASOS 118.875 (252) 446-0732.**COMMUNICATIONS:** CTAF/UNICOM 123.05

RCO 122.2 (RALEIGH RADIO) RCO 122.3 (RALEIGH RADIO)

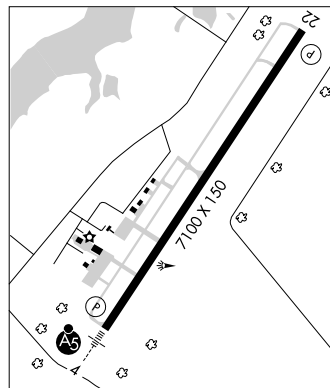
① **WASHINGTON CENTER APP/DEP CON 118.475****AIRSPACE:** CLASS E svc 1300-2300Z other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61' W77°42.23' 237° 11.7 NM to fld. 70/05W.

ILS 108.3 I-RWI Rwy 04 Class IA. ILS unmonitored.

COMM/NAV/WEATHER REMARKS: Cinc del provided by RALEIGH AFSS on frequency 122.3.

CHARLOTTE
H-9C, 12H, L-35B, 36G
IAP

**ROSCOE** N34°51.16' W79°41.62' NOTAM FILE RDU.

NDB (MHW) 375 RCZ 312° 4.0 NM to Richmond Co.

CHARLOTTE
L-25E, 35A, 36E

ROVDY N35°43.99' W80°29.37' NOTAM FILE RUQ.

NDB (MHW/LOM) 275 RU 202° 5.4 NM to Rowan Co.

CHARLOTTE
L-25D, 36F

ROWAN CO (See SALISBURY)

ROXBORO**PERSON CO** (TDF) 6 S UTC-5(-4DT) N36°17.08' W78°59.08'

609 B S2 FUEL 100LL, JET A1+ NOTAM FILE TDF

RWY 06-24: H6005X100 (ASPH) S-30 MIRL

RWY 06: REIL. PAPI (P2L)—GA 3.25° TCH 43'. Thld dsplcd 304'.
Trees.

RWY 24: REIL. PAPI (P2L)—GA 3.0° TCH 40'. Trees.

AIRPORT REMARKS: Attended 1300-2300Z†. For svc after hrs call 336-504-3441 or 919-423-3554. Deer and birds on and invof arpt. ACTIVATE MIRL Rwy 06-24, REIL Rwy 06 and Rwy 24, and PAPI Rwy 06 and Rwy 24—CTAF.**WEATHER DATA SOURCES:** AWOS-3 126.725 (336) 364-1651.**COMMUNICATIONS:** CTAF/UNICOM 122.7

® RALEIGH APP/DEP CON 132.35

GCO 119.7 (RALEIGH CLNC)

RADIO AIDS TO NAVIGATION: NOTAM FILE DCA.**SOUTH BOSTON (L) VORTAC** 110.4 SBV Chan 41 N36°40.50'

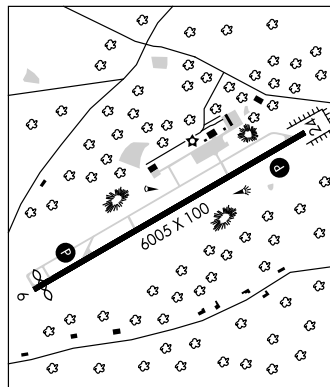
W79°00.87' 181° 23.4 NM to fld. 530/05W.

NDB (MHW/LOM) 220 HUR N36°14.00' W79°03.95' 060° 5.0 NM to fld. NOTAM FILE TDF.**ILS/DME** 108.7 I-TDF Chan 24 Rwy 06. Class IB. LOM

PERSON NDB. LOM unmonitored. ILS/DME unmonitored.

COMM/NAV/WEATHER REMARKS: AWOS-3 visibility information unreliable.

WASHINGTON

H-9C, 12H, L-26K, 36G
IAP**RUTHERFORD CO-MARCHMAN FLD** (See RUTHERFORDTON)**RUTHERFORDTON****RUTHERFORD CO-MARCHMAN FLD** (FQD) 3 N UTC-5(-4DT) N35°25.69' W81°56.11'

1077 B S4 FUEL 100LL, JET A1+ OX 1, 3 NOTAM FILE FQD

RWY 01-19: H5000X100 (ASPH) S-12.5 MIRL 0.4% up N

RWY 01: REIL. PAPI(P2L)—GA 3.0° TCH 29'. Trees.

RWY 19: PAPI (P2L)—GA 3.5° TCH 20'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z†, Sat 1400-2200Z†, and Sun 1800-2200Z†. For svc after hrs call 828-287-0800. Deer invof arpt. 100' dropoff 230' from thld Rwy 01. ACTIVATE MIRL Rwy 01-19 and REIL Rwy 01—CTAF after 0300Z†. PAPI Rwy 01 and Rwy 19 on 24 hrs.**WEATHER DATA SOURCES:** AWOS-3 118.275 (828) 287-6498.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® GREER APP/DEP CON 119.4 (1100-0445Z†)

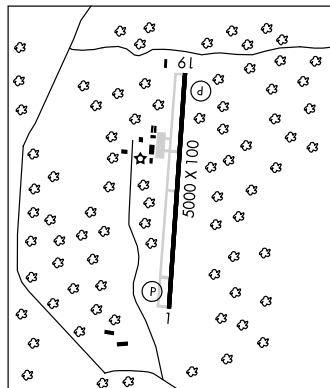
ATLANTA CENTER APP/DEP CON 119.575 (0445-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE AND.**SPARTANBURG (H) VORTAC** 115.7 SPA Chan 104 N35°02.02'

W81°55.62' 001° 23.6 NM to fld. 910/02W.

NDB (MHW) 344 RFE N35°20.94' W81°57.17' 015° 4.8 NM to fld. NOTAM FILE FQD.**ILS/DME** 109.55 I-FQD Chan 32(Y) Rwy 01.

CHARLOTTE

H-9B, 12G, L-25C
IAP

SALISBURY**ROWAN CO**

(RUQ) 3 SW UTC-5(-4DT) N35°38.75' W80°31.22'

772 B S4 FUEL 100LL, JET A1+ OX 4 NOTAM FILE RUQ

RWY 02-20: H5501X100 (ASPH) S-16 MIRL

RWY 02: REIL. PAPI(P2L)—GA 3.0° TCH 38'. Trees.

RWY 20: MALSR. REIL. PAPI(P2L)—GA 3.0° TCH 39'.

AIRPORT REMARKS: Attended 1300-0100Z†. 24 hr self-service avbl for 100LL with credit card. Tran mil fuel. Lgtd park, ramp clsd to all tfc except military acft with PPR. Operational Mon-Fri 1200-2030Z† exc holidays. MIRL Rwy 02-20 preset low ints; to increase ints and ACTIVATE REIL Rwy 02 and Rwy 20; PAPI Rwy 02 and Rwy 20 and MALSR Rwy 20—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.175 (704) 637-6197.**COMMUNICATIONS:** CTAF/UNICOM 122.8

CHARLOTTE APP/DEP CON 128.32 CHARLOTTE CLNC DEL 127.35

RADIO AIDS TO NAVIGATION: NOTAM FILE CLT.

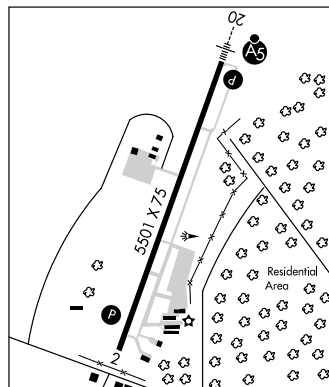
CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42'

W80°57.11' 043° 34.5 NM to fld. 733/05W. HIWAS.

ROVDY NDB (MHW/LOM) 275 RU N35°43.99' W80°29.37' 202° 5.4 NM to fld. NOTAM FILE RUQ.

ILS 109.95 I-RUQ Rwy 20. Class IB. LOM ROVDY NDB.

GS unusable byd 4° right of course and byd 7° left of course.



CHARLOTTE

H-9B, 12G, L-25D, 36E
IAP**SAMPSON CO**

(See CLINTON)

SANDHILLS

N35°12.93' W79°35.28' NOTAM FILE RDU.

(L) VORTAC 111.8 SDZ Chan 55 207° 21.2 NM to Richmond Co. 590/03W.

VOR portion unusable:

026°-074° byd 10 NM blo 5,000';

075°-143°

144°-154° blo 60'.

144°-154° byd 23 NM

155°-179° blo 5,000'.

RCO 122.1R 111.8T (RALEIGH RADIO)

180°-264° blo 8000'

301°-019° byd 10 NM blo 10,000'

CHARLOTTE

H-9C, L-25E, 35A, 36F

SANFORD-LEE CO RGNL

(TTA) 7 NE UTC-5(-4DT) N35°35.03' W79°06.05'

246 B S4 FUEL 100LL, JET A1+ OX 3 NOTAM FILE TTA

RWY 03-21: H6500X100 (ASPH) S-30, D-80 HIRL 0.3% up SW

RWY 03: MALSR. PAPI(P4L)—GA 3.0° TCH 45'. Trees.

RWY 21: REIL. PAPI(P4L)—GA 3.0° TCH 45'. Trees.

AIRPORT REMARKS: Attended 1200-0000Z†. For svc after hrs call 919-770-5945. ACTIVATE HIRL Rwy 03-21, MALSR Rwy 03 and REIL Rwy 21—CTAF. PAPI Rwy 03 and Rwy 21 on continuously.

WEATHER DATA SOURCES: AWOS-3 120.625 (919) 708-5382.**COMMUNICATIONS:** CTAF/UNICOM 123.075

Ⓡ RALEIGH APP/DEP CON 125.3

GCO 135.075 (RALEIGH CLNC)

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 050° 32.5 NM to fld. 590/03W.

LEECC NDB (MHW/LOM) 406 TT N35°29.84' W79°08.40' 028° 5.5 NM to fld.

ILS/DME 110.75 I-TTA Chan 44(Y) Rwy 03. LOM LEECC NDB.

CHARLOTTE

H-9C, 12G, L-36F
IAP

SEYMOUR JOHNSON AFB (GSB)(KGSB) AF 3 SE UTC-5(-4DT) N35°20.36' W77°57.64' **CHARLOTTE**
 109 B TPA—See Remarks Class I, ARFF Index A NOTAM FILE RDU Not insp. **H-9C, 12H, L-35B, 36F**
RWY 08-26: H11760X300 (CONC-GRVD) PCN 56 R/C/W/T HIRL **DIAP, AD**
RWY 08: ALSF1. PAPI(P4L). Rgt tfc. **RWY 26:** ALSF1. PAPI(P4L). Rgt tfc. 0.3% down
RUNWAY DECLARED DISTANCE INFORMATION
RWY 08: TORA-11760 TODA-11760 ASDA-11760
RWY 26: TORA-11760 TODA-11760 ASDA-11760
ARRESTING GEAR/SYSTEM
RWY 08 ←HOOK BAK-12A(B) (36' OVRN) HOOK BAK-12B(B) (1492')
 HOOK BAK-12B(B) (1492') HOOK BAK-12A(B) (52' OVRN) →**RWY 26**
MILITARY SERVICE: LGT Rwy 08-26 gated thld lgt. **A-GEAR** BAK-12B(B) always in place. The potential for tail hook
 skip exists, due conc inlay meeting asphalt pavement at the Rwy 26 underrun/Rwy 08 ovrn BAK 12
 barrier. **JASU** 8(M32A-60A/B) 5(M32A-86) 1(MC-11) 1(MC-1A) **FUEL J8 FLUID SP PRESAIR LPOX LOX**
 24 hr prior notice rqr. **OIL** O-148 SOAP
TRAN ALERT Avbl Mon-Fri 1200-0400Z, other times standby. Expect 1-2 hr svc/refuel delays weekend, holiday,
 peak periods and ltd maintenance. Ltd fleet svc avbl for military acft only. 50 gallon maximum per load for
 lavatory.
MILITARY REMARKS: Opr 1200-0430Z. See FLIP AP/1 Supplementary Arpt Info. **RSTD** Transient acft expect full stop
 lgt during local flying period. PPR ctc Base OPS 24 hr PN DSN 722-4097, C919-722-4097, fax 4100. PPR all
 acft incl Distinguished Visitors, hazardous cargo and air evacuation regardless of affiliation for notification and
 coordination purposes. Transient acft ctc Base OPS via PTD prior arr to confirm svc rqr. Issued PPR valid 1 hr
 prior or after ETA, early/late arr/dep must be re-coordinated. 72 hr prior notice rqr for all acft carrying hot cargo.
 Twy F no acft larger than C130. Twy H clsd. C5, B2 and VC26 acft will experience degraded firefighting
 capability-coordination 1 week prior to arr for PPR and svc. Twy G ltd to KC135 323,000 lbs or less and F15
 65,000 lbs or less. Twy B, G, and J avbl to fighter acft only when arm/de-arm in use. **CAUTION** Uncontrolled
 vehicle tfc on twy and apron. Bird and deer haz. Peak activity usually begins 1 hr prior SR and SS. Waste water
 treatment pond facility off W end of rwy attracts significant number of waterfowl. Trees 3000' E of apch Rwy 26.
 Unlgtld obst (trees) E and W apch ends Rwy 08-26 pent 50:1. Afd grass cutting Mar-Nov, expect increased bird
 activity invov mowers. Reduce jet blast clnc between parking rows on F-15 ramp. Minimum jet blast clnc
 provided for large acft on transient ramp. Non-std mark—10' blue stripe on S side of Twy A identifies sub-sfc
 fire hydrant location. **TFC PAT** TPA Rectangular 1300 (1191), Overhead 1800 (1791), Lgt acft 1000 (991). **MISC**
 Reported prevailing visibility may not represent touchdown visibility due obstruction from obsn pt; Obsn pt is
 obstructed from 090°-110° and 250°-010°. ATC will enhance sfc obsn when twr visibility and/or surface
 visibility is less than 4 SM. Reported visibility will be the low of either twr or sfc visibility. ATC will assist in
 cooperative wx watch by notifying Wx of previously unreported wx cond. Runway Condition Reading not reported
 by Seymour Johnson base wx. Current Runway Condition Reading and Runway Surface Covering info avbl via PTD
 and ATIS. Heavy acft should exercise extreme caution when taxiing on C135 ramp due to minimum wingtip clnc.
 All inbound acft with VIP ctc consolidated Comd Post 60 NM out. Heavy equipment land long over BAK-12s, if
 unable ctc Base OPS 30 min prior. No COMSEC material avbl. Transient aircrews should plan to arr with
 appropriate amount of COMSEC to complete entire mission. No COMSEC storage avbl at Base OPS. All transient
 aircrews shall store top secret material at Wing Comd Post. ACC reduced same rwy separation for ACC acft only.
 Rwy 08-26: first 1000x300 conc each end. Center 75' con with 112' asphalt edges, grooved.
COMMUNICATIONS: SFA **ATIS** 317.625 (1200-0430Z) **PTD** 372.2
(R) APP CON 119.7 273.6 (111°-257°) 123.7 290.9 (258°-110°) (1200-0430Z), other times ctc
WASHINGTON CENTER APP CON 135.5 272.75
TOWER 126.25 370.875 (1200-0430Z) **GND CON** 138.1 275.8 **CLNC DEL** 128.025 270.8
(R) DEP CON 119.7 338.6 (South) 123.7 320.1 (North) 290.9 273.6 (0430-1200Z), other times ctc
WASHINGTON CENTER DEP CON 135.5 272.75
4FW COMD POST (RAYMOND 25) 311.0 321.0 (Have QUICK timing unavbl)
916 ARW COMD POST (LIGHTHOUSE CON) 311.0 **PMSV METRO** 323.925 Wx DSN 722-4089 (C919-722-4089)
 forecaster avbl Mon-Fri 1200-2000Z clsd holidays. Opr hrs may vary with local flying schedule. Wx obsn avbl
 24 hrs via AWOS. AWOS augmented when rqr. Full svc avbl 26 OWS Barksdale AFB, DSN 781-4775,
 C318-456-4775.
ACC SOF (LION SOF) 376.1
RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.
(L) TACAN Chan 112 GSB (116.5) N35°20.11' W77°58.28' at fld. 82/8W. Unmonitored 0430-1200Z.
 No NOTAM MP Mon and Fri 0500-1030Z (1500/3+1).
ILS 109.3 I-GSB Rwy 08. Unmonitored 0430-1200Z. No NOTAM MP Mon-Fri 0500-1030Z
 (3000/5+1)
ILS 109.9 I-DDX Rwy 26. Unmonitored 0430-1200Z. No NOTAM MP Mon-Fri 0500-1030Z
 (3000/5+1), weekends 1400-1600Z.
PAR
COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima. ATIS No NOTAM MP Fri 0900-1100Z.

SHELBY—CLEVELAND CO RGNL (EHO) 3 SW UTC-5(-4DT) N35°15.35' W81°36.05'

CHARLOTTE

847 B S4 FUEL 100LL, JET A1+ NOTAM FILE RDU

H-9B, 12G, L-25D

RWY 05-23: H5002X100 (ASPH) S-21 MIRL

IAP

RWY 05: PAPI(P2L)—GA 3.0° TCH 41'. Trees.

RWY 23: PAPI(P2L)—GA 3.0° TCH 28'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z, Sat 1500-2000Z, Sun 1800-2100Z. Fuel avbl 24 hrs self-svc with credit card. For svc after hrs call 704-284-3321. Rwy 05 has 45' dropoff 100' from thld. Rwy 23 has 35' dropoff 600' from thld. After 0300Z, ACTIVATE MIRL Rwy 05-23—CTAF. PAPI Rwy 05 and Rwy 23 on continuously.

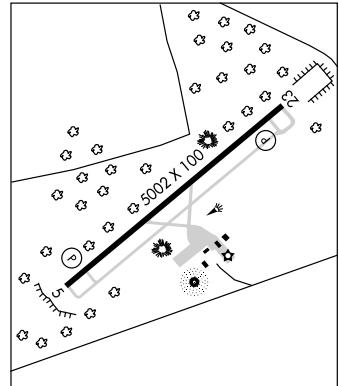
WEATHER DATA SOURCES: AWOS-3 118.425 (704) 487-0100.**COMMUNICATIONS:** CTAF/UNICOM 122.8

CHARLOTTE APP/DEP CON 134.75

RADIO AIDS TO NAVIGATION: NOTAM FILE AND.

SPARTANBURG (H) VORTAC 115.7 SPA Chan 104 N35°02.02' W81°55.62' 052° 20.9 NM to fld. 910/02W.

FIRST RIVER NDB (MHW) 417 SLP N35°15.16' W81°35.93' at fld. NOTAM FILE RDU.

**SHIFLET FLD** (See MARION)**SILER CITY MUNI** (5W8) 3 SW UTC-5(-4DT) N35°42.27' W79°30.24'

CHARLOTTE

614 B S4 FUEL 100LL, JET A1+ NOTAM FILE RDU

H-9C, 12G, L-25E, 36F

RWY 04-22: H5000X75 (ASPH) S-25 MIRL 0.3% up NE

IAP

RWY 04: PAPI(P2L)—GA 4.0° TCH 40'. Tree.

RWY 22: PAPI(P2L)—GA 3.0° TCH 30'. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1400-2200Z, Sun 1700-2200Z. After hrs fuel or svcs call 919-545-0138 or 919-619-2707. Fuel 100LL avbl 24 hrs self svc. Deer and birds on and in/ovf arpt. MIRL Rwy 04-22 preset low ints dusk-0500Z; to increase ints and ACTIVATE after 0500Z—CTAF. PAPI Rwy 04 and 22 opr continuously.

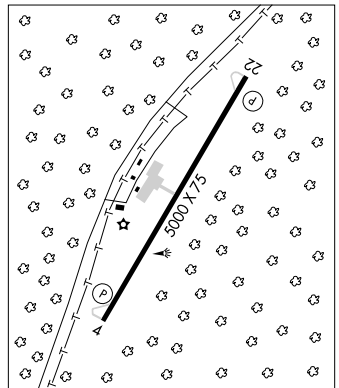
COMMUNICATIONS: CTAF/UNICOM 122.7

® GREENSBORO APP/DEP CON 118.5

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

LIBERTY (L) VORTAC 113.0 LIB Chan 77 N35°48.70' W79°36.76' 143° 8.3 NM to fld. 830/03W.

NDB (MHW) 371 TOX N35°45.69' W79°27.74' 218° 4.0 NM to fld.



SIMMONS AAF (FORT BRAGG) (FBG)(KFBG) A 1 E UTC-5(-4DT) N35°07.92' W78°56.17' **CHARLOTTE**
 244 B TPA—See Remarks NOTAM FILE FBG Not insp. **H-9C, 126, L-35A, 36F**
RWY 09-27: H5011X110 (ASPH) PCN 20 F/A/W/T MIRL **DIAF, AD**

RWY 09: Thld dsplcd 705'.

RWY 27: REIL. PAPI(P2L)—GA 2.9° TCH 39'. Thld dsplcd 197'.

MILITARY SERVICE: FUEL J8 24hr PPR for cold fuel. Hot refuel hrs Mon-Fri 2100-0500Z.

MILITARY REMARKS: Opr Mon-Fri 1200-0400Z Sat-Sun 1200-2000Z, CLOSED holidays. When twr and/or surface visibility is bto 4 SM the lesser value will be reported as prevailing. See FLIP AP/1 Flt Hazard and Supplementary Arpt Remark. **RSTD** 24 hr PPR for remain overnight and all civil acft, DSN 236-7804, C910-396-7804. No Haz Cargo area avbl. **CAUTION** Bird hazard. Arpt perimeter lgt may cause pilot distraction. **TFC PAT** TPA—Fixed-wing 1250(1006), rotary-wing 1000(756). **MISC** Pilots notify Simmons OPS 20 minutes out with Code 6 or abv on board. All acft ctc GND CON prior to engine start. All wheeled rotary-wing acft gnd taxi until reaching twy. No refuel avbl on VIP spots.

COMMUNICATIONS: ATIS 139.25

(R) FAYETTEVILLE APP/DEP CON 133.0 295.0

TOWER 125.9 240.625 (Mon 0510Z Sat 0400Z, clsd holidays) **GND CON** 121.9 229.4 **CLNC DEL** 121.9 229.4

FLT ADVISORY 125.9 240.625 **PMSV METRO** 141.25 265.6 (Mon 0400Z Sat 0400Z, clsd holidays. Full svc during opr hr, other times remote briefing from 26 OWS Barksdale AFB, LA, DSN 781-4775, C318-456-4775.

BASE OPS 142.35 245.5

AIRSPACE: CLASS D svc Mon 0510Z Sat 0400Z, clsd holidays, other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°56.38' 273° 6.1 NM to fld. 179/04W.

FORT BRAGG NDB (MHW) 393 FGP N35°08.33' W78°48.75' 275° 6.1 NM to fld. NOTAM FILE FBG.

Unmonitored Mon-Fri 0400-1200Z, Sat-Sun and holidays 2000-1200Z. No NOTAM MP 1st Mon 1300-1330Z.

ASR/PAR Mon-Fri 1200-0400Z, clsd holidays)

COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.

SKY MANOR (See JACKSONVILLE)

SLAMMER N36°22.90' W79°45.77' NOTAM FILE RDU.

CINCINNATI

NDB (MHW) 423 SIF 315° 5.4 NM to Rockingham Co NC Shiloh. NDB unmonitored.

L-26I, 36F

SMITHFIELD

JOHNSTON CO (JNX) 3 NW UTC-5(-4DT) N35°32.46' W78°23.42'

CHARLOTTE

164 B S4 **FUEL** 100LL, JET A1+ TPA—1199(1035) NOTAM FILE JNX

H-9C, 126, L-35B, 36F

RWY 03-21: H5500X100 (ASPH) S-65, D-65 MIRL 0.3% up NE **IAP**

RWY 03: MALSR. PAPI(P4L)—GA 3.0° TCH 45'. Trees.

RWY 21: REIL. PAPI(P4L)—GA 4.0° TCH 49'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1200-0000Z, Sat and Sun 1300-2300Z. Unattended Thanksgiving and Christmas day. Deer on and invof arpt. Be alert when taxiing near south ramp/corporate hangar. Rwy 03-21 30' dropoff 350' from Rwy 21 thld to left and right of centerline. 50' AGL twr 200' SW of Rwy 03 centerline. Avoid overflights of housing area in tfc pattern for noise abatement. Fly wider down winds and longer dep legs. Between 0130-1100Z **ACTIVATE** MIRL Rwy 03-21, MALSR Rwy 03, REIL Rwy 21, PAPI Rwy 03 and Rwy 21, and twy lgts—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.225 (919) 934-3851.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) RALEIGH APP/DEP 125.3

GCO 135.075 (RALEIGH CLNC and FLIGHT SERVICES)

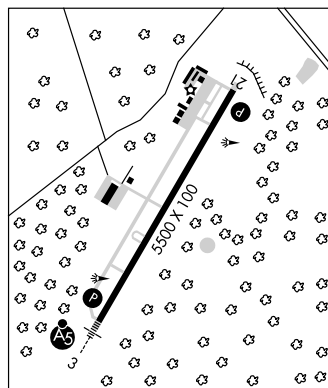
RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan

119 N35°52.35' W78°47.00' 140° 27.6 NM to fld. 429/04W.

JURLY NDB (MHW/LOM) 263 JN N35°28.50' W78°25.52' 032°4.3 NM to fld. NOTAM FILE JNX. NDB unmonitored 2200-1300Z. NDB unusable byd 15 NM.

ILS/DME 111.15 I-JNX Chan 48(Y) Rwy 03. Class IB. LOM JURLY NDB. JURLY (JN) NDB unmonitored 2200-1300Z. ILS GS/LOC unmonitored 2200-1300Z. DME unmonitored. JURLY(JN) NDB unusable byd 15 NM. OM OTS indef.



SMITH REYNOLDS (See WINSTON SALEM)

SOUTHEAST GREENSBORO (See GREENSBORO)**SPRUCE PINE****AVERY CO/MORRISON FLD** (7A8) 4 NE UTC-5(-4DT) N35°56.67' W81°59.74'**CHARLOTTE**

2750 S4 FUEL 100LL, JET A NOTAM FILE RDU

L-25C**RWY 17-35:** H3000X50 (ASPH) S-12.5**RWY 17:** Building. Rgt tfc.**RWY 35:** Trees.**AIRPORT REMARKS:** Attended Tue-Fri 1400-2200Z, Sat 1600-2300Z, Sun 1800-2300Z. CLOSED on Mon.

Self-svc fueling after hrs with credit card. JET A with additive premixed. FBO svc avbl. Arpt rstd to VFR only. Rwy 35 mountainous terrain above rwy elevation - 6000' from rwy end - 650' above rwy elevation - on centerline.

Rwy 35 has 60' dropoff 200' from thld and 60' dropoff 70' left of centerline. Rwy 17 has 40' dropoff 300' from thld. Military ops in and around vicinity of arpt. Wildlife in and around vicinity of arpt. Gravel mining ops west of and adjacent to rwy. High terrain all quadrants, daylight VFR ops only, Rwy 35 uphill grade, Rwy 17 rgt traffic preferred for takeoff. Rwy 17 preferred for tkfs - Rwy 35 preferred for landings. Arpt phone number 828-766-8187.

COMMUNICATIONS: CTAF/UNICOM 123.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.**HOLSTON MOUNTAIN (L) VORTAC** 114.6 H MV Chan 93 N36°26.22' W82°07.77' 172° 30.2 NM to fld. 4321/04W.**STALS** N35°14.64' W77°41.90' NOTAM FILE ISO.**CHARLOTTE****NDB (LOM)** 276 IS 049° 6.8 NM to Kinston Rgnl Jetport At Stallings Fld.**STANLY CO** (See ALBEMARLE)**STAR****MONTGOMERY CO** (43A) 0 NE UTC-5(-4DT) N35°23.08' W79°47.42'**CHARLOTTE**

628 B S4 FUEL 100LL, JET A NOTAM FILE RDU

L-25E, 36F**RWY 03-21:** H4001X75 (ASPH) S-11.4 MRL**RWY 03:** Trees.**RWY 21:** Thld dspcd 460'. Trees.**AIRPORT REMARKS:** Attended 1300-2200Z. Deer occasionally on rwy. 40' p-line 350'-750' from thld Rwy 21 across and left of centerline. 20'-25' depressed area 180' S of Rwy 03 thld on centerline. Rwy 03 has uphill grade.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**SANDHILLS (L) VORTAC** 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 319° 14.2 NM to fld. 590/03W.**STATESVILLE RGNL** (SVH) 3 SW UTC-5(-4DT) N35°45.90' W80°57.23'**CHARLOTTE**

968 B S4 FUEL 100LL, JET A, JET A1+ OX 1,3 TPA-1768(800)

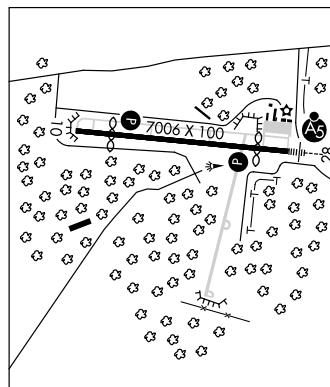
H-9B, 126, L-250

NOTAM FILE SVH

IAP**RWY 10-28:** H7006X100 (ASPH) S-30, D-100 HIRL**RWY 10:** REIL. PAPI(P2L)-GA 3.0° TCH 61'. Thld dspcd 1000'. Trees.**RWY 28:** MALSR. PAPI(P2L)-GA 3.0° TCH 57'. Thld dspcd 550'. Trees.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 10:** TORA-7006 TODA-7006 ASDA-6456 LDA-5456**RWY 28:** TORA-7006 TODA-7006 ASDA-6006 LDA-5456**AIRPORT REMARKS:** Attended Mon-Fri 1100-0200Z, Sat-Sun

1300-0200Z. For after hrs svc call (704) 236-3319 or (704) 987-8679. Rwy 28 has 100' drop-off 250' right of centerline.

ACTIVATE REIL Rwy 10, MALSR Rwy 28, PAPI Rwy 10 and Rwy 28-CTAF. HIRL Rwy 10-28 preset on med ints dusk-0400Z, to increase inst ACTIVATE-CTAF. After 0400Z ACTIVATE HIRL Rwy 10-28-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.225 (704) 873-1978.**COMMUNICATIONS:** CTAF/UNICOM 123.075**(R) ATLANTA CENTER APP/DEP CON** 125.15**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**BARRETT'S MOUNTAIN (L) VOR/DME** 110.8 BZM Chan 45 N35°52.13' W81°14.43' 120° 15.3 NM to fld. 1880/06W.**ILS/DME** 111.75 I-SVH Chan 54(Y) Rwy 28. LOC unusable byd 15° right of course.**COMM/NAV/WEATHER REMARKS:** AWOS-3 wind unavailable.

STONIA N35°11.48' W81°09.43' NOTAM FILE RDU.

CHARLOTTE

NDB (MHW) 260 GHJ at Gastonia Muni. NDB unmonitored 2330–1130Z during standard time, 2330–1030Z during daylight savings time.

L–25D, 36E

SUGARLOAF MOUNTAIN N35°24.39' W82°16.12' NOTAM FILE RDU.

ATLANTA

(L) VORTAC 112.2 SUG Chan 59 280° 13.5 NM to Asheville Rgnl. 3970/02W.
RC0 122.3 122.2 122.1R 112.2T (RALEIGH RADIO)

L–25C

SUGAR VALLEY (See MOCKSVILLE)

SWAN CREEK (See JONESVILLE)

SYLVA

JACKSON CO (24A) 3 SE UTC–5(–4DT) N35°19.05' W83°12.60'

ATLANTA

2857 B FUEL 100LL TPA–3857(1000) NOTAM FILE RDU

L–25B

RWY 15–33: H3003X50 (ASPH) S–12.5 HIRL

RWY 15: Tree. RWY 33: Trees.

AIRPORT REMARKS: Attended irregularly. For assistance call 828–508–6954. Self-service fuel avbl 24 hrs with credit card. Rwy 15, 300' dropoff 300' from thld both sides and 90' left and right of centerline along rwy. Rwy 33, 300' dropoff 200' from thld 50' left of centerline. Mountain hazard bcn lgts located on mountain range approximately 1.7 miles SSW of arpt. Rwy 33 numbers smaller than standard. ACTIVATE HIRL Rwy 15–33—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

SNOWBIRD (L) VORTAC 108.8 SOT Chan 25 N35°47.41' W83°03.14' 199° 29.4 NM to fld. 4239/04W.

TARBORO–EDGEcombe (ETC) 2 N UTC–5(–4DT) N35°56.24' W77°32.79'

CHARLOTTE

53 B NOTAM FILE RDU

L–35C, 36G

RWY 09–27: H4000X60 (ASPH) MIRL

IAP

RWY 09: PAPI(P2L)—GA 4.0° TCH 28'. Thld dsplcd 200'. Trees.

RWY 27: REIL. PAPI(P2L)—GA 3.0° TCH 38'. Trees.

AIRPORT REMARKS: Unattended. Deer on and invof arpt. 500' low level route 3 miles NE of arpt—be alert for military acft invof arpt. ACTIVATE MIRL Rwy 09–27, REIL Rwy 27 and PAPI Rwy 09 and Rwy 27—CTAF.

COMMUNICATIONS: CTAF 122.9

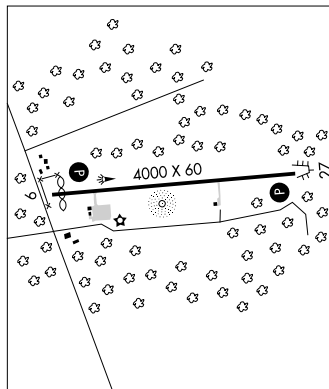
WASHINGTON CENTER APP/DEP CON 118.475

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61'

W77°42.23' 112° 8.0 NM to fld. 70/05W.

NDB (MHW) 257 ETC N35°56.13' W77°32.78' at fld. NDB unusable byd 18 NM.



TAR RIVER N35°58.61' W77°42.23' NOTAM FILE RDU.

CHARLOTTE

(L) VORTAC 117.8 TYI Chan 125 237° 11.7 NM to Rocky Mt–Wilson Rgnl. 70/05W

H–9C, L–35C, 36G

RC0 122.1R 117.8T (RALEIGH RADIO)

TAWBA N35°47.19' W81°18.32' NOTAM FILE HKY.

CHARLOTTE

NDB (MHW) 332 HK 243° 4.9 NM to Hickory Rgnl.

L–25D

HIATT (N97) 3 SW UTC-5(-4DT) N35°49.81' W80°06.45'

855 B S4 FUEL 100LL NOTAM FILE RDU

RWY 01-19: 2500X75 (TURF) LIRL

RWY 01: Trees.

RWY 19: TRCV (TRIL)—GA 3.2° TCH 25'. Trees.

RWY 09-27: 1160X50 (TURF)

RWY 09: Trees.

RWY 27: Trees.

AIRPORT REMARKS: Attended 1700Z+-dusk. For fuel call 336-881-0248. Rwy 27 has +4' fence 30' from thld and 12' building 70' from thld on extended centerline. Rwy 09-27 used primarily for ultralights. Rwy uphill marked with yellow cones. Rwy 19 preferred for ldg uphill; rwy and thlds marked with yellow cones. Acft monitor 122.9.

ACTIVATE LIRL Rwy 01-19 and TRIL Rwy 19—CTAF.

COMMUNICATIONS: CTAF 122.9

TRI-COUNTY (See AHOSKIE)

TRIPLE W (See RALEIGH)

TRYON N35°09.49' W81°01.24' NOTAM FILE CLT.

CHARLOTTE

NDB (LOM) 242 CL 056° 5.1 NM to Charlotte/Douglas Intl.

TWIN LAKES (See MOCKSVILLE)

US HELIPORT (See WINGATE)

ANSON CO (AFP) 3 N UTC-5(-4DT) N35°01.24' W80°04.63'

CHARLOTTE

| | | | | |
|-----|---|------|----------------|----------------|
| 300 | B | FUEL | 100LL, JET A1+ | NOTAM FILE RDU |
|-----|---|------|----------------|----------------|

H-9B, 12G, L-25E, 36E

RWY 16-34: H5498X100 (ASPH) S-12, D-60 MRL

IAP

RWY 16: REIL. R

L)—GA 3.0° TCH 30'. Trees.

RWY 34: REIL. PAPI(P2L)—GA 3.0° TCH 29'. Trees.

IMPORT REMARKS: Attended Mon-Fri 1300-2200Z±. F

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z. For after hrs svc call 704-848-4612. 100LL fuel-24 hr self-svc avbl with credit card. Deer in vicinity of arpt. Rwy 34 +6' hill from rwy end and 216' right of rwy centerline. Rwy 16-34 used for both aeronautical tow and auto launch for gliders. ACTIVATE MRL Rwy 16-34, PAPI Rwy 16 and Rwy 34, and REIL Rwy 16 and Rwy 34-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.325, (704) 695-0623.

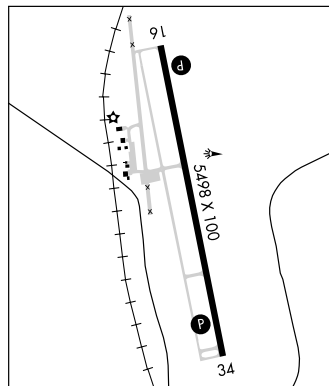
COMMUNICATIONS: CTAF/UNICOM 122.8

® CHARLOTTE APP/DEP CON 120.05

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93'

W79°35.28' 247° 26.8 NM to fld. 590/03W.



WALLACE**HENDERSON FLD** (ACZ) 1 SW UTC-5(-4DT) N34°43.07' W78°00.22'**CHARLOTTE**

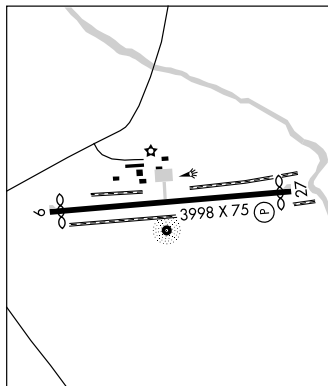
39 B S4 FUEL 100LL, JET A1+ NOTAM FILE RDU

L-35B**RWY 09-27:** H3998X75 (ASPH) S-12.5 MIRL**IAP****RWY 09:** Thld dsplcd 149'. Trees.**RWY 27:** PAPI(P2L)—GA 3.45° TCH 43'. Thld dsplcd 151'. Trees.**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†, Sat 1400-2300Z† and Sun 1800-2300Z†. 24 hr self svc fuel with credit card. 24 hr access to pilots' lounge—door code on fuel receipt. Parachute Jumping. PAPI Rwy 27 opr continuously.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **WILMINGTON APP/DEP CON** 135.75 (1100-0400Z†)Ⓡ **WASHINGTON CENTER APP/DEP CON** 124.025 (0400-1100Z†)**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.**KINSTON (L) VORTAC** 109.6 ISO Chan 33 N35°22.26'

W77°33.50' 214° 44.9 NM to fld. 106/05W.

PENDY NDB (MHW) 379 ACZ N34°42.98' W78°00.22' at fld.

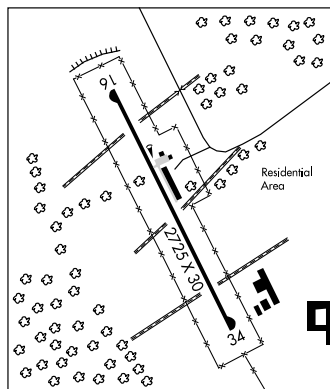
NOTAM FILE RDU.

**WALNUT COVE****MEADOW BROOK FLD** (N63) 1 NW UTC-5(-4DT) N36°18.09' W80°08.90'**CINCINNATI**

631 S4 FUEL 100LL NOTAM FILE RDU

L-25D, 36F**RWY 16-34:** H2725X30 (ASPH) LIRL (NSTD)**IAP****RWY 16:** Trees. **RWY 34:** Trees.**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†. Arpt CLOSED to transients except PPR—336-591-7881. High terrain all quadrants. +8' dropoff AER 16. Fencing in the clear zone Rwy 16 and Rwy 34. Do not land on grass adjacent to rwy—deep ditches. No transient stopping tfc—will allow touch and go. Rwy 16-34 NSTD LIRL; lgts 30' either side of asph along old turf rwy. 3 thld lgts with blue lens. +50' trees within 125' of centerline on west side of rwy. +65' trees within 110' of centerline east of rwy. ACTIVATE LIRL Rwy 16-34—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 123.0Ⓡ **GREENSBORO APP/DEP CON** 124.35**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.**GREENSBORO (H) VORTAC** 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 334°17.5 NM to fld. 879/03W

**WARF** (See REIDSVILLE)**WARREN FLD** (See WASHINGTON)

WASHINGTON**WARREN FLD** (OCW) 0 NE UTC-5(-4DT) N35°34.23' W77°02.99'

38 B FUEL 100LL, JET A1 + NOTAM FILE OCW

RWY 17-35: H5000X150 (ASPH-CONC) S-22 MIRL

RWY 17: Thld dsplcd 501'. Pole. RWY 35: Trees.

RWY 05-23: H5000X100 (ASPH) S-30, D-38 MIRL

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Trees.

RWY 23: REIL VASI(V2L)—GA 3.0° TCH 40'. Thld dsplcd 199'. Trees.

RWY 11-29: H4000X150 (ASPH-CONC) S-22

RWY 11: Trees. RWY 29: Trees.

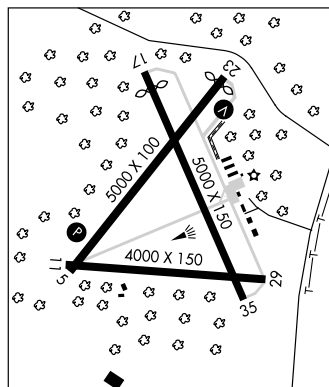
AIRPORT REMARKS: Attended Mon-Sat 1300-2300Z†, Sun 1300-2200Z†. CLOSED Thanksgiving and Christmas. For fuel after hrs call 252-975-9320. RWY 11-29 CLOSED only when NOTAMS issued. Deer and birds on and invof arpt. Parachute Jumping. Loose aggregate/gravel on all rwys. Rwy 17-35 loose gravel, pot holes, cracks, pavement heaving and spalling, vegetation in rwy. Rwy 11-29 grass growing through cracks and small pot holes. pavement heaving and spalling. Twys not lgtd. Rwy 05 PAPI OTS indef. MIRL Rwy 05-23 preset on low ints, to increase ints and ACTIVATE MIRL Rwy 17-35, VASI Rwy 23, PAPI Rwy 05 and REIL Rwy 05 and Rwy 23 —CTAF.

WEATHER DATA SOURCES: AWOS-3 120.175 (252)975-6133.**COMMUNICATIONS:** CTAF/UNICOM 122.7④ **WASHINGTON CENTER APP/DEP CON 135.5****RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 069° 27.6 NM to fld. 106/05W.

CHOCOWINITY NDB (MHW) 388 RNW N35°30.58' W77°06.40' 044° 4.6 NM to fld. NOTAM FILE OCW.

ILS/DME 110.9 I-OCW Chan 46 Rwy 05. LOC only.

CHARLOTTE
 H-9C, 12H, L-35C
 IAP
**WAXHAW****JAARS-TOWNSEND** (N52) 3 S UTC-5(-4DT) N34°51.83' W80°44.88'

602 B FUEL 100LL, JET A NOTAM FILE RDU

RWY 04-22: H3309X40 (ASPH) LIRL (NSTD)

RWY 04: Trees. RWY 22: Thld dsplcd 200'. Trees.

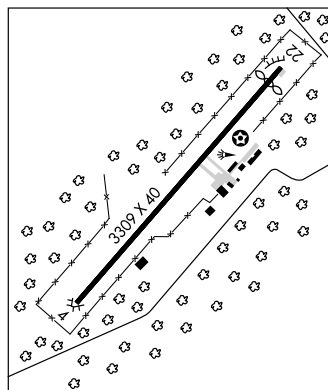
AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z†. Deer on and invof arpt. Ultralight activity on and invof arpt. Rwy 04-22 has 20 ft down slope between ends. Rwy 04-22 NSTD LIRL, edge lgts 30 ft from pavement. Surface variations in rwy surface area. Rwy 04-22 markings NSTD size. Ngt tkf use Rwy 22. Ngt ldg use Rwy 04 unless wind dictates otherwise. ACTIVATE rotating bcn—CTAF. ACTIVATE LIRL Rwy 04-22—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0④ **CHARLOTTE APP/DEP CON 120.05****RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11' 158° 22.0 NM to fld. 732/05W. HIWAS.

FORT MILL (L) VORTAC 112.4 FML Chan 71 N34°59.34'

W80°57.29' 128° 12.7 NM to fld. 645/02W. NOTAM FILE AND. SHUTDOWN.

CHARLOTTE
 L-241, 250, 36E
 IAP
**WAYNE** N35°31.57' W77°54.02' NOTAM FILE RDU.

NDB (MHW/LOM) 208 JYN 227° 5 NM to Goldsboro-Wayne Muni. Unmonitored. SHUTDOWN.

CHARLOTTE
 L-35B, 36E
WESLEY N34°57.18' W80°42.31' NOTAM FILE EQY.

NDB (MHW) 204 TWL 052° 5.8 NM to Charlotte-Monroe Executive. NDB unmonitored 2200-1300Z†.

CHARLOTTE
 L-250, 36E
WESTERN CAROLINA RGNL (See ANDREWS)

WHITEVILLE**COLUMBUS CO MUNI** (CPC) 3 S UTC-5(-4DT) N34°16.37' W78°42.90'**CHARLOTTE**
H-9C, 126, L-35A
IAP

99 B FUEL 100LL, JET A1+ NOTAM FILE CPC

RWY 06-24: H5000X75 (ASPH) S-24, D-30 MIRL 0.5% up SW**RWY 06:** REIL. PAPI(P2L)—GA 3.0° TCH 40'. Trees.**RWY 24:** VASI(V2L)—GA 3.0° TCH 37'. Trees.**AIRPORT REMARKS:** Attended Mon-Sat 1300-2300Z†, Sun

1400-2300Z†. Arpt unattended Christmas day. For emergency svc after hrs call 910-654-3389/642-0685. Deer on and in/ov arpt. Rwy 24 has 15' dropoff 200' from thld both sides. Rwy 06 REIL OTS indef. Rwy 24 VASI OTS indef. MIRL Rwy 06-24 opr dusk-0500Z†, after 0500Z† ACTIVATE MIRL Rwy 06-24—CTAF. ACTIVATE REIL Rwy 06—CTAF. PAPI Rwy 06 and VASI Rwy 24 on continuously.

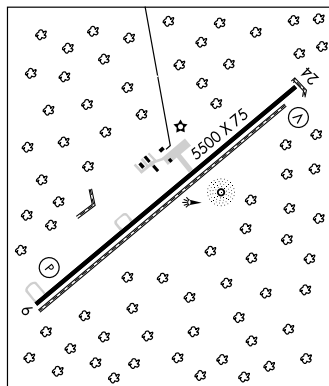
WEATHER DATA SOURCES: AWOS-3 118.375 (910) 642-7508.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ MYRTLE BEACH APP/DEP CON 119.2 (1100-0400Z†)

JAX CENTER APP/DEP CON 128.7 (0400-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE FLO.**FLORENCE (H) VORTAC** 115.2 FLO Chan 99 N34°13.98'W79°39.43' 090° 46.9 NM to fld. 110/03W. **HIWAS.****CAMP NDB (MHW)** 227 CPC N34°16.31' W78°42.84' at fld.

NOTAM FILE RDU. Unmonitored Mon-Sat 2300-1300Z† and Sun 2300-1400Z†.

**WHITFIELD FARMS** (See HURDLE MILLS)**WILGROVE AIR PARK** (See CHARLOTTE)**WILKESBORO** N36°13.36' W81°05.92'
RCO 122.4 (RALEIGH RADIO) at Wilkes Co.**CINCINNATI**
L-25D**WILKES CO** (See NORTH WILKESBORO)**WILKI** N36°06.77' W81°05.89' NOTAM FILE RDU.
NDB (MHW/LOM) 209 UKF 006°6.6 NM to Wilkes Co.**CINCINNATI**
L-25D**WILLIAMSTON** N35°51.54' W77°10.68' NOTAM FILE RDU.
NDB (MHW) 336 MCZ at Martin Co.**CHARLOTTE**
L-35C**WILLIAMSTON****MARTIN CO** (MCZ) 6 W UTC-5(-4DT) N35°51.73' W77°10.69'**CHARLOTTE**
H-9C, 12H, L-35C
IAP

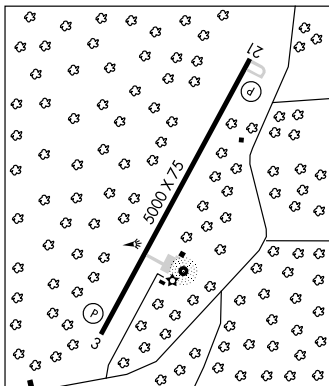
76 B FUEL 100LL NOTAM FILE RDU

RWY 03-21: H5000X75 (ASPH) S-21 MIRL**RWY 03:** PAPI(P2L)—GA 3.0° TCH 31'. Road.**RWY 21:** PAPI(P2L)—GA 3.0° TCH 24'. Trees.**AIRPORT REMARKS:** Attended 1300-2200Z†. For fuel after hrs call 252-792-1964 or 252-809-2281. For svc after hrs call 252-792-1964. Deer on and in/ov arpt. PAPI RWY 03, RWY 21 opr continuously. MIRL Rwy 03-21 dusk to dawn; to change intensity of MIRL Rwy 03-21—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ WASHINGTON CENTER APP/DEP CON 135.5

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.**TAR RIVER (L) VORTAC** 117.8 TYI Chan 125 N35°58.61'

W77°42.23' 110° 26.5 NM to fld. 70/05W

WILLIAMSTON NDB (MHW) 336 MCZ N35°51.54' W77°10.68' at fld.

WILMINGTON INTL (ILM)(KILM) CIV/MIL/AF 3 NE UTC-5(-4DT) N34°16.24' W77°54.15'

CHARLOTTE

32 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 LRA Class I, ARFF Index B

H-9C, L-35B

NOTAM FILE ILM

DIAP, AD

RWY 06-24: H8016X150 (ASPH-GRVD) S-75, D-160, ST-175,

DT-275 PCN 100 F/A/X/T HIRL

RWY 06: REIL. VASI(V4L)—GA 3.0° TCH 60'.

RWY 24: MALSR. VASI(V4L)—GA 3.0° TCH 48'.

RWY 17-35: H7004X150 (ASPH-GRVD) S-60, D-185, ST-175,

DT-300 PCN 24 F/A/X/T HIRL

RWY 17: REIL. VASI(V4L)—GA 3.0° TCH 53'. Tree.

RWY 35: MALSR. PAPI(P4L)—GA 3.0° TCH 34'. Dsplcd thld 400'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06: TORA-8016 TODA-8016 ASDA-8016 LDA-8016

RWY 17: TORA-7004 TODA-7004 ASDA-6204 LDA-6204

RWY 24: TORA-8016 TODA-8016 ASDA-8016 LDA-8016

RWY 35: TORA-7004 TODA-7004 ASDA-7004 LDA-6604

MILITARY SERVICE: FUEL (NC-100LL). A+ (Air Wilmington, Inc, C910-763-4691.)

AIRPORT REMARKS: Attended continuously. Acft taxiing from S ramp obtain ATC clnc prior to crossing Rwy 17-35 1100-0400Z†. Rwy 24 touchdown runway visual range avbl. ACTIVATE REIL Rwy 06 and Rwy 24, MALSR Rwy 24, HIRL Rwy 06-24, all twy lgtS—CTAF. Flight Notification Service (ADCUS) avbl.

WEATHER DATA SOURCES: ASOS (C910) 343-9489

COMMUNICATIONS: CTAF 119.9 ATIS 124.975 UNICOM 122.95

RCO 122.1R 117.0T (RALEIGH RADIO)

RCO 122.55 (RALEIGH RADIO)

Ⓡ APP/DEP CON 135.75 317.425 346.35 (344°-163°) 118.25 284.65 (164°-343°) (1100-0400Z†)

Ⓡ WASHINGTON CENTER APP/DEP CON 124.025 269.15 (0400-1100Z†)

TOWER 119.9 239.3 (1100-0400Z†) **GND CON** 121.9 348.6 **CLNC DEL** 121.9 348.6

AIRSPACE: CLASS D svc 1100-0400Z† other times CLASS E.

TRSA svc ctc APP CON within 20 NM.

RADIO AIDS TO NAVIGATION: NOTAM FILE ILM.

(H) **VORTAC** 117.0 ILM Chan 117 N34°21.10'W77°52.46' 205° 5.1 NM to fld. 20/07W.

VOR portion unusable:

165°-169°

186°-219° byd 16 NM blo 3000'

186°-219° byd 21 NM

186°-219° blo 2000'

220°-273° byd 5 NM blo 17,500'

274°-314° byd 5 NM

315°-164° byd 5 NM blo 8,000'

GRAND STRAND (L) VORTAC 117.6 CRE Chan 123 N33°48.83' W78°43.47' 059° 49.3 NM to fld. 20/03W. NOTAM FILE CRE.

AIRLI NDB (LOM) 281 IL N34°11.48' W77°51.98' 346° 5.1 NM to fld. Unmonitored when twr clsd.

WILZE NDB (LOM) 205 GM N34°20.25' W77°48.71' 236° 6.0 NM to fld.

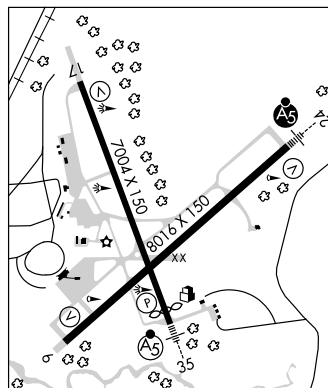
ILS 110.3 I-ILM Rwy 35. Class IB. LOM AIRLI NDB. ILS unmonitored when twr clsd. LOC unusable byd 26° right of course.

ILS 111.55 I-GMX Rwy 24. Class IE. LOM WILZE NDB.

ILS/DME 109.95 I-GNM Chan 36(Y) Rwy 06. GS unusable byd 7° right of course.

ASR

COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.



WILSON INDUSTRIAL AIR CENTER (W03) 3 N UTC-5(-4DT) N35°46.22' W77°58.19'

CHARLOTTE

161 B FUEL 100LL, JET A1+ NOTAM FILE RDU

L-35B, 36G

RWY 03-21: H4500X150 (ASPH) S-20 MIRL

IAP

RWY 03: REIL. PAPI(P2L)—GA 3.54°TCH 40'. Trees.

RWY 21: REIL. PAPI(P2L)—GA 3.81°TCH 40'. Trees.

RWY 09-27: H4500X150 (ASPH) S-20

RWY 09: Trees. RWY 27: Trees.

RWY 15-33: H4499X150 (ASPH) S-20

RWY 15: Trees. RWY 33: Trees.

AIRPORT REMARKS: Attended 1300-2300Z+. For svc after hrs call 252-904-9706. Deer on and invof arpt. No line-of-sight between rwy ends. MIRL Rwy 03-21 preset low ints; to increase ints and ACTIVATE PAPI and REIL Rwys 03 and 21—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

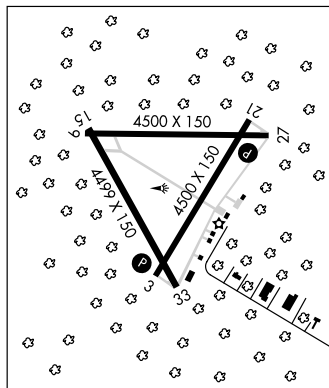
® WASHINGTON CENTER APP/DEP CON 118.475

GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61'

W77°42.23' 231° 17.9 NM to fld. 70/05W.

COMM/NAV/WEATHER REMARKS: GCO OTS indef.**WILSON'S** (See HICKORY)**WILZE** N34°20.25' W77°48.71' NOTAM FILE ILM.

CHARLOTTE

NDB (LOM) 205 GM 236° 6.0 NM to Wilmington Intl.

WINGATE**US HELIPORT** (N46) 3 N UTC-5(-4DT) N34°59.06' W80°25.15'

CHARLOTTE

590 S4 FUEL JET A NOTAM FILE RDU

HELIPAD H1: 100X100 (TURF)

HELIPORT REMARKS: Attended Mon-Fri 1300-2200Z+. PPR weekdays 2200Z+-SR and weekends/holidays, call 704-233-4254. PPR for ngt ops. Unmarked p-lines N and S of pad. Helicopters with gross weight over 10,000 pounds use TURF W of CONC pad but within fenced area. Tkf and ldg in all quadrants into prevailing wind.

COMMUNICATIONS: CTAF/UNICOM 123.075

WINSTON SALEM**SMITH REYNOLDS** (INT) 3 NE UTC-5(-4DT) N36°08.02' W80°13.32'**CINCINNATI**969 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 LRA ARFF Index—See Remarks
NOTAM FILE INT**H-9B, 12G, L-25D, 36F**
IAP, AD**RWY 15-33:** H6655X150 (ASPH-GRVD) S-110, D-135, ST-175, DT-230 HIRL 1.0% up NW**RWY 15:** REIL. PAPI(P4L)—GA 3.0°TCH 36'. Thld displcd 586'. Bldg.**RWY 33:** MALSR.**RWY 04-22:** H3938X150 (ASPH) S-40, D-55, DT-90 MIRL 0.3% up NE**RWY 04:** Trees. **RWY 22:** PAPI(P2L)—GA 3.0°TCH 39'. Trees.**LAND AND HOLD SHORT OPERATIONS**

| LANDING | HOLD SHORT POINT | DIST AVBL |
|---------------|------------------|-----------|
| RWY 33 | 04-22 | 6010 |

AIRPORT REMARKS: Attended continuously. Class IV, ARFF Index A. CLOSED to air carrier opr with more than 30 passenger seats 0400-1200Z except 24 hr PPR. ARFF Index B coverage also avbl, call arpt manager 336-767-6361. Boeing 727-200 series are restricted to rwy 15-33, terminal ramp, and Twy A and Twy F only. Rwy 33 touchdown rwy visual range avbl. HIRL Rwy 15-33 preset on med ints when twr clsd, MIRL Rwy 04-22 unavailable when twr clsd. When twr clsd ACTIVATE REIL Rwy 15 and MALSR Rwy 33—CTAF. Flight Notification Service (ADCUS) avbl.

WEATHER DATA SOURCES: ASOS (336) 661-3096. LAWRS.**COMMUNICATIONS:** CTAF 123.75 ATIS 121.3 UNICOM 122.95**(R) GREENSBORO APP/DEP CON 124.35****WINSTON SALEM TOWER 123.75 (1145-0230Z) GND CON 128.25****AIRSPACE:** CLASS D svc 1145-0230Z other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.**GREENSBORO (H) VORTAC 116.2** GSO Chan 109 N36°02.74' W79°58.58' 297° 13.1 NM to fld. 879/03W. HIWAS.**RENO NDB (LOM) 317** IN N36°04.26' W80°10.01' 332° 4.6 NM to fld. Unmonitored when twr clsd.**ILS 110.3** I-INT Rwy 33. Class IB. LOM REENO NDB. GS unusable blo 1141'.**WOODVILLE** N36°15.78' W76°17.88' NOTAM FILE ECG.**WASHINGTON****NDB (MHW) 254** LLW 101° 6.0 NM to Elizabeth City CG Air Station/Rgnl.**L-35C****WRIGHT BROTHERS** N35°55.23' W75°41.82' NOTAM FILE MQI.**CHARLOTTE****(T) VORW/DME 111.6** RBX Chan 53 at Dare Co Rgnl. 10/08W.**L-35D****VOR** unusable 281°-318° blo 8000', 319° blo 4000' and 320°-280°. Unmonitored 2300-1300Z.**YADKINVILLE****LONE HICKORY** (80C) 6 S UTC-5(-4DT) N36°03.08' W80°41.37'**CINCINNATI**

1000 NOTAM FILE RDU Not insp.

RWY 16-34: 2000X60 (TURF)**RWY 16:** Road. **RWY 34:** Trees.

AIRPORT REMARKS: Attended irregularly. Call 336-463-4680. Acft opr from Piney Ridge Arpt 1.3 mi northwest. Acft parked 90' from centerline at rwy mid point. Rwy 16-34 has 3% grade, winds permitting tkf Rwy 34 and ldg Rwy 16. P-lines 500'-1000' north Rwy 16 thld. No flt training or student pilots only experienced pilots permitted. Rwy 34 dep make left turn for noise and obstruction avoidance.

COMMUNICATIONS: CTAF 122.9**YANCEYVILLE****CASWELL** (6W4) 2 W UTC-5(-4DT) N36°23.98' W79°23.57'**CINCINNATI**

648 NOTAM FILE RDU

RWY 04-22: 1735X150 (TURF)**RWY 04:** Tree. **RWY 22:** Trees.

AIRPORT REMARKS: Unattended. Deer on and invof arpt. Model acft activity on arpt. Rwy 04-22 +50'-70' trees along both sides of rwy. +4' fence 20' from thld on diagonal. Occasional nighttime military ops. Rwy 04-22 marked with yellow cones.

COMMUNICATIONS: CTAF 122.9**ZEPHYR** N36°18.79' W80°43.40' NOTAM FILE RDU.**CINCINNATI****NDB (MHW) 326** ZEF 242° 3.6 NM to Elkin Muni.**L-25D**

**INTENTIONALLY
LEFT
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2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During CY 2010, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding these airspace restrictions.

The currently scheduled 2010 aerial demonstration locations, subject to change without notice, are:

| DATE: | | USAF Thunderbirds | USN Blue Angels | USA Golden Knights | Canadian Snowbirds |
|-----------|-------|-----------------------------|----------------------|-----------------------------|--------------------|
| June | 5-6 | Ocean City, MD | Eau Claire, WI | Eau Claire, WI | |
| | 5-6 | | | Florence, SC | |
| | 12-13 | | Milwaukee, WI | Milwaukee, WI | |
| | 19-20 | | Cape Girardeau, MO | | |
| | 19-21 | Tinker AFB, OK | | Cape Girardeau, MO | |
| | 23 | | | Ft McNair, VA | |
| | 26-27 | North Kingstown, RI | St. Cloud, MN | | |
| | 26-27 | | | Fairmont, NC | |
| July | 3 | | | Madison, WI | |
| | 3 | | | Dubuque, IA | |
| | 3-4 | | Traverse City, MI | | |
| | 10 | | Pensacola Beach, FL | | |
| | 10-11 | Gary, IN | | Gary, IN | |
| | 17-18 | Duluth, MN | Dayton, OH | | |
| | 24-25 | Fairchild AFB, WA | Idaho Falls, ID | | |
| | 28 | Cheyenne, WY | | | |
| | 29 | | | Goshen, IN | |
| | 29 | | | Ft AP Hill, VA | |
| | 31 | Rockford, IL | Anchorage, AK | Rockford, IL | Elmendorf AFB, AK |
| August | 1 | Rockford, IL | Anchorage, AK | Rockford, IL | Elmendorf AFB, AK |
| | 7-8 | Point Mugu NAS, CA | Seattle, WA | New Castle, PA | |
| | 14-15 | | Chicago, IL | Chicago, IL | |
| | 21-22 | Westfield, MA | | Westfield, MA | |
| | 25 | | | Atlantic City, NJ | |
| | 26 | | | Ft Monroe, VA | |
| | 28-29 | Coney Island (Brooklyn), NY | Portsmouth, NH | Coney Island (Brooklyn), NY | |
| | 28-29 | | | Portsmouth, NH | |
| September | 4-5 | Martinsburg, WV | | Cleveland, OH | |
| | 4-5 | | | Martinsburg, WV | |
| | 4-6 | | Cleveland, OH | | |
| | 11-12 | Corapolis (Pittsburgh), PA | Scott AFB, IL | Corapolis (Pittsburgh), PA | |
| | 11-12 | | | Scott AFB, IL | |
| | 17 | | | Southern Pines, NC | |
| | 18-19 | Whiteman AFB, MO | NAS Oceana, VA | Whiteman AFB, MO | Reno, NV |
| | 25-26 | McConnell AFB, KS | MCAS Kaneohe Bay, HI | | Chico, CA |

| | | | | | |
|----------|-------|---------------------|-----------------------|-----------------------|--------------------|
| DATE: | | USAF Thunderbirds | USN Blue Angels | USA Golden Knights | Canadian Snowbirds |
| October | 1-3 | | MCAS Miramar, CA | | MCAS Miramar, CA |
| | 2-3 | Salinas, CA | | MCAS Miramar, CA | |
| | 2-3 | | | Jackson, MS | |
| | 9-10 | Little Rock AFB, AR | San Francisco, CA | Little Rock, AFB, AR | Daytona Beach, FL |
| | 16-17 | El Paso, IX | Dobbins AFB, GA | El Paso, TX | Atlanta, GA |
| | 23-24 | | NAS Jacksonville, FL | | |
| | | Houston, TX | | Washington, DC | |
| | 30-31 | | Ft Worth Alliance, TX | Ft Worth Alliance, TX | |
| | | Cocoa Beach, FL | | | |
| November | 6-7 | Lackland AFB, TX | Homestead ARB, FL | Lackland AFB, TX | |
| | 6-7 | | | Homestead ARB, FL | |
| | 11-14 | | | Ft Bragg, NC | |
| | 12-13 | | NAS Pensacola, FL | | |
| | 13-14 | Nellis AFB, NV | | | |

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMS to verify they have the most current information regarding any airspace restrictions.

**NOISE ABATEMENT PROCEDURES
COVINGTON, KY, CINCINNATI/NORTHERN KENTUCKY INTL AIRPORT (CVG)**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

**AEROBATIC PRACTICE AREA
Jack Edwards Airport (JKA)
Gulf Shores, AL**

Aerobatic flight activity will be conducted within a 2 NM radius of airport. Contact UNICOM for traffic and Anniston AFSS for specific times.

Fayette County (FYE), Somerville, Tennessee

Aerobatic training and practice is conducted in a 3500' symmetrical box located 500 feet west of Rwy 01-19 from the sfc to 4500 MSL. If surface winds favor Rwy 01, right traffic for that rwy is in effect when area is active.

Pilots should use caution within this area. For further information contact Jackson AFSS on 1-901-423-1289.

**CONTROLLED FIRING AREA
Milan, Tennessee**

Controlled Firing Area 5 NM radius 2500' & blo of MKL 030/018, eff. Mon-Fri 1200-2300Z, Sat 1530-2230Z, Sun 1230-1700Z.

**Helicopter Activity
Mosby Army Heliport, Dahlonge, GA Area**

Occasional military helicopter activity within 15NM radius of Mosby AHP, (34°37'N/84°06'W) SFC to 3700 MSL. Activity includes: flight formations, personnel transport operations, cargo para-drop operations (below 500 AGL), medical evacuation and night vision device training. CTAF 227.2, 139.3, "Mountain Ranger 08" FM 34.10. Staff Duty Officer, Camp Frank D. Merrill, (706) 864-3367.

**NIGHT VISION LIGHTS OUT OPERATIONS
North Carolina, South Carolina**

Military helicopter activity will be conducted for Night Vision Lights Out Training in North Carolina and South Carolina. Position lights will be extinguished or greatly reduced in intensity. The training is conducted in areas of low air traffic and not within four (4) miles of a public use airport. Training is IAW exemption to Far Part 91.

Boundaries: Beginning at Lat 35°41'N, Lon 78°30'W; to Lat 34°00'N, Lon 78°30'W; to Lat 34°00'N, Lon 80°00'W; to Lat 36°00'N, Lon 80°30'W; to point of beginning.

Times of use: Sunset to sunrise, daily.

**Helicopter Activity
Camp Blanding, Starke, Florida Area**

Heavy military helicopter activity within 9 NM radius Blanding AAF, (29°57'7.84"N; 81°58'47.32"W). Surface to 1,500 feet. Activity includes: flight formations, personnel transport operations, sling loads, MED VAC, and night vision goggle training. Mon-Sat 1300-0500Z, 1300-2000Z, Sun. Blanding Twr 123.0 by NOTAM, other times Range Control 123.0. (904) 533-3113/3352.

**Cuban Flight Advisory
(UNTIL FURTHER NOTICE)**

The Federal Aviation Administration has been informed that an official Cuban government publication has issued a warning that Cuban Armed Forces will shoot down any aircraft that penetrates Cuban Airspace illegally and refuses to obey an order to land for inspection.

All pilots should take note: use extreme caution in the area of Cuban Airspace; adhere strictly to Cuban requirements for overflight of their territory.

LASER LIGHT DEMONSTRATIONS**Lake Buena Vista, Florida**

A laser light demonstration will be conducted at Disney MGM Studios Theme Park, Lake Buena Vista, Florida (ORL 226 radial, 16.2 NM, LAT 28°21'42"N, LON 81°33'29"W), from 6:00 PM until 4:00 AM, until further advised. The beam may be injurious to eyes if viewed within 3,000 feet vertically and/or 12,000 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

Lake Buena Vista, Florida

A laser light demonstration will be conducted at Epcot Center, Lake Buena Vista, Florida (ORL 226 radial, 16 NM, lat 28°22'N, long 81°32'W), from 6:00 pm until 4:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 1 nautical mile laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

Miami, Florida

A permanent laser light demonstration will be conducted at Bayfront Park, Miami, Florida (VKZ 312 radial, 2.24 NM, Lat 25°46'41"N, Lon 80°11'12"W), from 8:00 p.m. until 12:00 a.m. until further advised. The laser light beam is not expected to elevate above the horizon from a 90 foot high platform. Laser light beam may be injurious to eyes if viewed within 4,400 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

Miami Beach, Florida

A permanent Laser Light Demonstration will be conducted at the Amnesia Club, located in Miami Beach, Florida, Lat 25°46"N/Long 80°08"W, nightly from dusk until 2 AM.

Laser Light beam may be injurious to eyes if viewed within 3,500 feet vertically and/or 2,000 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

Orlando, Florida

A laser light demonstration will be conducted at Sea World of Florida, Orlando, Florida (ORL 220 radial, 11 NM, Lat 27°24'N, Long 81°27'W), from 6:30 pm until 12:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 6500 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

A permanent laser light demonstration will be conducted at the Walt Disney World, Alien Encounter, Orlando, Florida, ORL VORTAC 239 radial, 15 nautical miles, from Dusk to 12:00 AM daily.

Laser light beam may be injurious to eyes if viewed within 2500 feet laterally and/or 2500 feet vertically of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

Decatur, Georgia

Laser light activity will be conducted at Agnes Scott College, Decatur, GA located at Lat 33° 45' 55"N/Long 84° 17' 39"W (ATL 041° radial, 11 NM), intermittent daily, at an angle of 90 degrees from the surface, projecting up to 14,036 feet, until further notice. Flash blindness or cockpit illumination may occur beyond these distances.

Clemson, South Carolina

A permanent laser light demonstration will be conducted at Clemson University, Clemson, South Carolina, ELW VORTAC 353R/18NM, from dusk until dawn, daily.

Laser light beam may be injurious to eyes if viewed within 3,500 feet laterally and/or 3,500 feet vertically of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

LASER LIGHT EXPERIMENT**Arecibo Observatory, Puerto Rico**

Location: 18°-20'-37"N 66°-45'-11"W

A Laser Light Beam Experiment will be conducted at the Arecibo Observatory, Puerto Rico (PSE 340/30), from one hour before sunset until one hour after sunrise twice weekly (by NOTAM).

Laser light beam may be injurious to eyes if viewed within 5,000 feet vertical and/or one nautical mile lateral of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

MEMPHIS, TN**MEMPHIS INTL AIRPORT (MEM) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

NASHVILLE, TN**NASHVILLE INTL AIRPORT (BNA) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 20L and 20R are authorized, with course divergence beginning within 1 mile of the departure end of parallel runways, due to noise abatement restrictions.

CHARLOTTE, NC**CHARLOTTE/DOUGLAS INTL AIRPORT (CLT) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 3 miles from the departure end of parallel runways, due to noise abatement restrictions.

AIRSPACE DELEGATED TO MACDILL AFB, FL

From 1100-2300 UTC (0700-1900 Local) daily, the following airspace that lies within the Tampa CLASS B Airspace will be delegated to McDill AFB ATCT for airport traffic control services, and CLASS B Airspace services will not be provided within this portion of the CLASS B Airspace:

That airspace which extends from 1,200 feet MSL up to and including 1,600 feet MSL, south of a line located 1½ miles west of and parallel to MacDill AFB Runway 4/22 extended runway centerline, within a 4.5 NM radius from the geographical center of the MacDill AFB Airport.

**Indianapolis ARTCC
NABB, INDIANA AREA****New Hope, London, Lexington Kentucky Area**

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

HELICOPTER ACTIVITY ORLANDO, FL AREA.

Heavy helicopter activity over the Disney attractions, Sea World, Universal Studios, Bay Hill and surrounding area. Surface to 1000' MSL. Operations 24 hours daily. Helicopters, transmitting and receiving on 123.02.

CAUTION-TETHERED AEROSTAT RADAR SYSTEM (TARS)

A TARS (a large helium-filled balloon) operates continuously up to 14,000 feet, except during inclement weather or when the system is down for maintenance, in R-2916 at Cudjoe Key, Florida. The tether is unmarked and is virtually impossible to see from only a few hundred feet. See the Miami Sectional Chart for location.

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

| | |
|----------------------|------------|
| North Atlantic area: | 123.45 MHz |
| Caribbean area: | 123.45 MHz |
| Pacific area: | 123.45 MHz |

ST. PETERSBURG, FLORIDA

Pilots planning to overfly the St. Petersburg VORTAC (PIE) below 13,000 feet MSL should file via the Lakeland VORTAC (LAL) between 1100 and 2300 UTC.

GEORGIA

Atlanta Tower: Low altitude airway structure in proximity of the Hartsfield-Jackson Atlanta Intl Airport is aligned to provide bypass routes for traffic overflying Atlanta. To avoid heavy concentration of high performance and wide-bodied aircraft, pilots should file for airways beyond 35 nautical miles from Atlanta VOR. Aircraft operating IFR below 15,000 MSL, via airways within 35 nautical miles of Atlanta VOR may expect altitude changes and/or rerouting between the hours 0830 and 2100 local.

U.S. SPECIAL CUSTOMS REQUIREMENT

Air Commerce Regulations of the Treasury Department's Customs Service require all private aircraft arriving in the U.S. from a foreign place in the Western Hemisphere, (a) south of 33 degrees north latitude which cross into the U.S. over a point on the U.S./Mexican border between 97 and 120 degrees west longitude, or (b) south of 31 degrees north latitude which enter the U.S. via the Gulf of Mexico and Atlantic Coasts, to provide notice of intended arrival to the Customs Service at least one hour prior to crossing the U.S./Mexican border or the U.S. coastline. This notice may be provided by: (1) radio through an appropriate FAA Flight Service Station, (2) normal FAA flight plan notification procedures (a flight plan filed in Mexico does not meet this requirement due to unreliable relay of data), or (3) directly to the District Director of Customs or other Customs officer at place of first intended landing. Unless an exemption has been granted by Customs, private aircraft are required to make first landing in the U.S. at one of the following designated airports nearest to the point of border or coastline crossing:

Brownsville/South Padre Island International, Corpus Christi International, Del Rio International, El Paso International, Laredo International, Maverick County Memorial International, McAllen Miller International, Presidio-Lely International, Southwest Texas Regional, or William P. Hobby Airport in Texas; Calexico International, or Brown Field Municipal in California; Bisbee Douglas International, Nogales International, Tuscon International, or Yuma MCAS/Yuma International in Arizona; Las Cruces Intl in New Mexico; Lakefront or Louis Armstrong New Orleans Intl in Louisiana; Fort Lauderdale Executive, Fort Lauderdale-Hollywood International, Key West International, Miami International, Opa-Locka Executive Airport, Palm Beach International, St. Lucie County International, or Tampa International in Florida.

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army Installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT RESTRICTIONS BOCA RATON AIRPORT (BCT), FLORIDA

On initial contact, pilot should advise local Air Traffic Control Tower or announce on local Unicom frequency if aircraft has greater than 79 feet wingspan and/or greater than 140 knot approach speed. Aircraft with wingspan greater than 79 feet and/or an approach speed greater than 140 knots are prohibited from using Runway 5/23 while any aircraft occupies Taxiway P. Aircraft with a wingspan greater than 79 feet must remain clear of Taxiway P while any aircraft are approaching or departing Runway 5/23.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

FEDERAL AVIATION REGULATION 91.713

The provisions of FAR 91.713 will apply as follows:

Air traffic clearances to aircraft of Cuban registry not engaged in scheduled International Air Service in U.S. airspace will require that the flight plan be filed with appropriate authorities at least five days prior to the proposed departure time. Route changes while en route will normally not be authorized. The procedures set forth herein do not apply at this time to overflights by aircraft of Cuban registry engaged in scheduled International Air Service.

CAUTION—HIGH DENSITY AIR TRAFFIC AREA

Heavy helicopter and seaplane traffic exists over the Gulf of Mexico and adjacent onshore areas. Thousands of operations per month occur in this area in support of oil drilling and exploration.

Itinerant pilots traversing this area should familiarize themselves with offshore operating practices and frequencies through contact with the pertinent Flight Standards District Office (FSDO) or Flight Service Station.

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

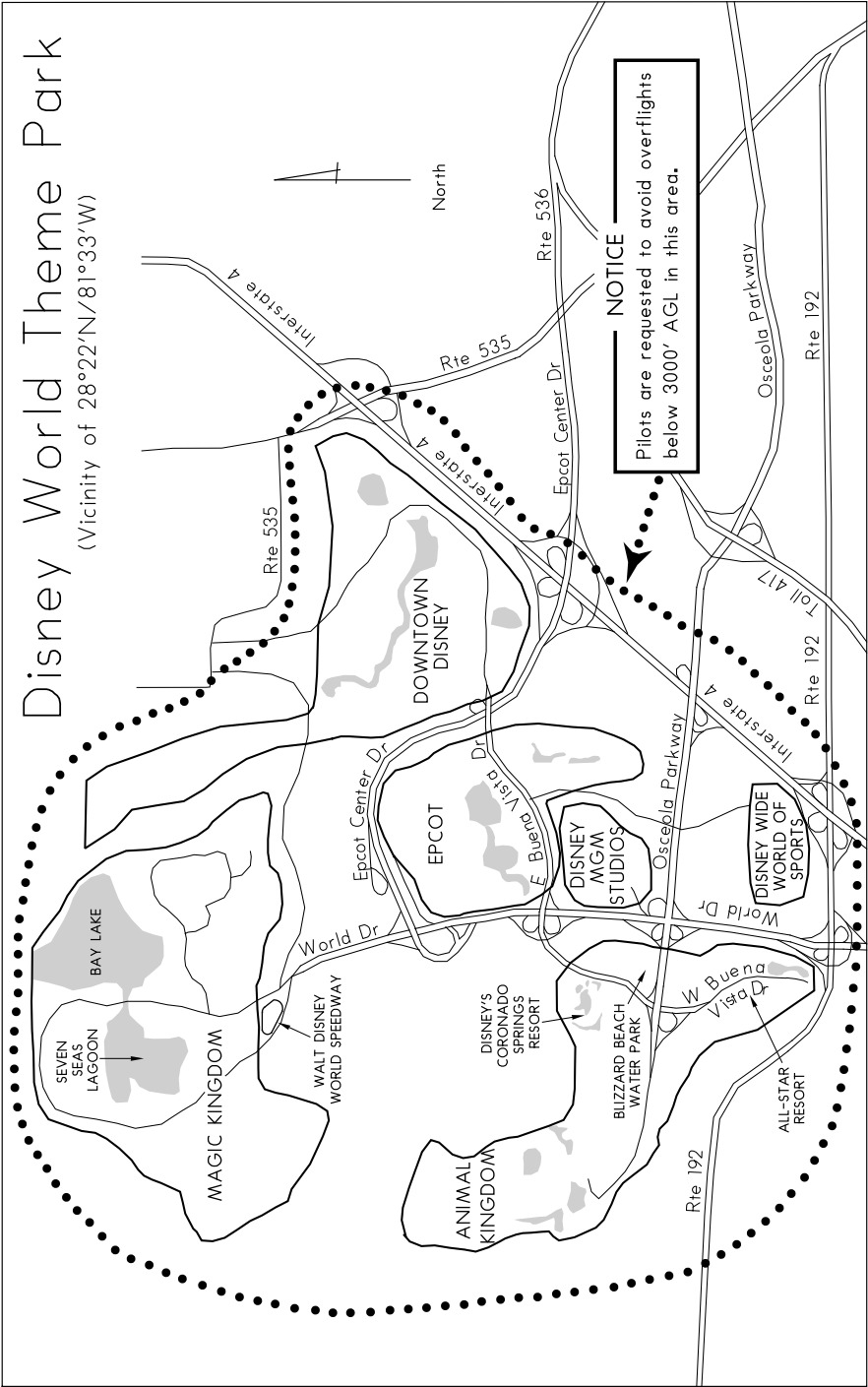
In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

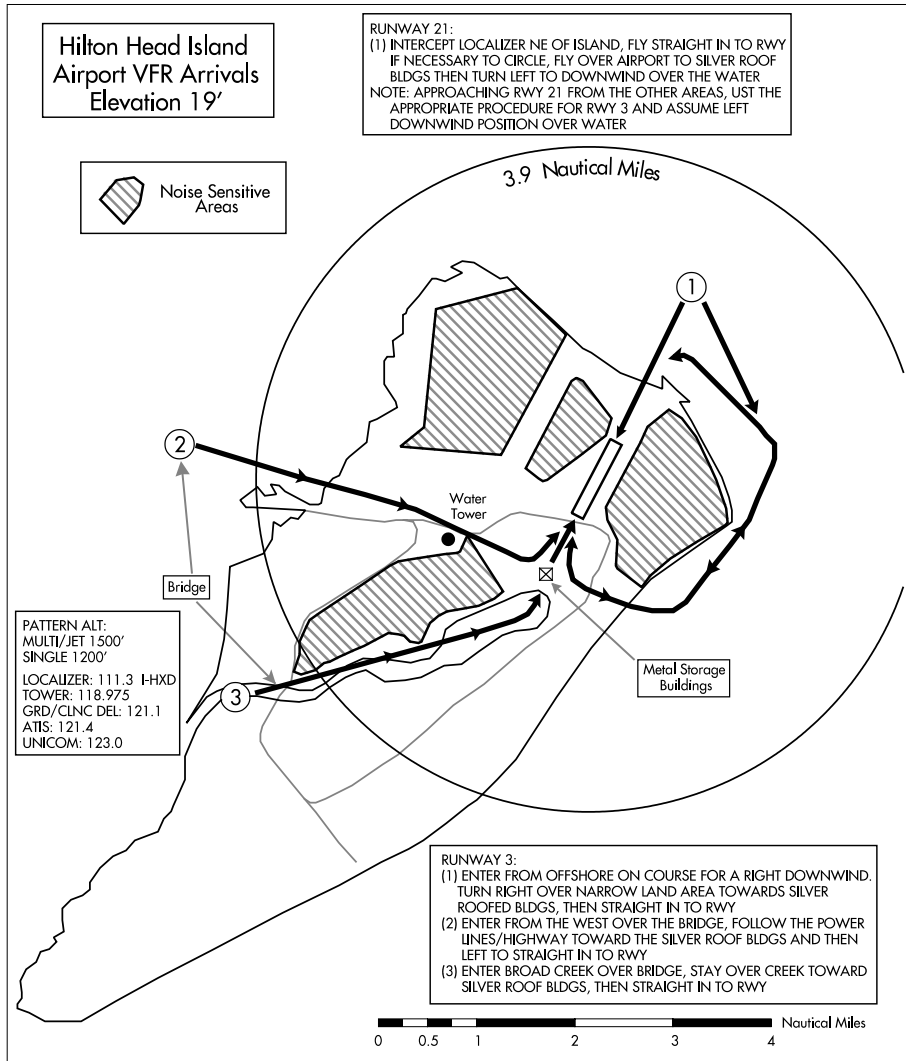
| Airport/Ident | Runway No. | Airport/Ident | Runway No. |
|-----------------------------------|------------|--------------------------------|------------|
| Albuquerque, NM (ABQ) | 08 | Milwaukee, WI (MKE) | 01L |
| Anchorage, AK (ANC) | 07R | Minneapolis, MN (MSP) | 30L |
| Andrews AFB, MD (ADW) | 01L | Nashville, TN (BNA) | 02L |
| Atlanta, GA (ATL) | 09R | New Orleans, LA (MSY) | 10 |
| Baltimore, MD (BWI) | 10 | New York, NY (JFK) | 04R |
| Bismarck, ND (BIS) | 31 | New York, NY (LGA) | 22 |
| Boise, ID (BOI) | 10R | Newark, NJ (EWR) | 04R |
| Boston, MA (BOS) | 04R | Oklahoma City, OK (OKC) | 35R |
| Charlotte, NC (CLT) | 36L | Omaha, NE (OMA) | 14R |
| Chicago, IL (ORD) | 10 | Ontario, CA (ONT) | 26L |
| Cincinnati, OH (CVG) | 36C | Philadelphia, PA (PHL) | 09R |
| Cleveland, OH (CLE) | 06R | Phoenix, AZ (PHX) | 08 |
| Dallas/Fort Worth, TX (DFW) | 17C | Pittsburgh, PA (PIT) | 10L |
| Denver, CO (DEN) | 35R | Reno, NV (RNO) | 16R |
| Des Moines, IA (DSM) | 31 | Salt Lake City, UT (SLC) | 34L |
| Detroit, MI (DTW) | 03R | San Antonio, TX (SAT) | 12R |
| El Paso, TX (ELP) | 22 | San Diego, CA (SAN) | 09 |
| Fairbanks, AK (FAI) | 01L | San Francisco, CA (SFO) | 28R |
| Great Falls, MT (GTF) | 03 | San Juan, PR (SJU) | 08 |
| Honolulu, HI (HNL) | 08L | Seattle, WA (SEA) | 16C |
| Houston, TX (IAH) | 26L | St. Louis, MO (STL) | 30R |
| Indianapolis, IN (IND) | 05L | Tampa, FL (TPA) | 36L |
| Jacksonville, FL (JAX) | 07 | Tulsa, OK (TUL) | 36R |
| Kansas City, MO (MCI) | 19R | Washington, DC (DCA) | 01 |
| Los Angeles, CA (LAX) | 24R | Washington, DC (IAD) | 01R |
| Memphis, TN (MEM) | 36L | Wichita, KS (ICT) | 01L |
| Miami, FL (MIA) | 08R | | |

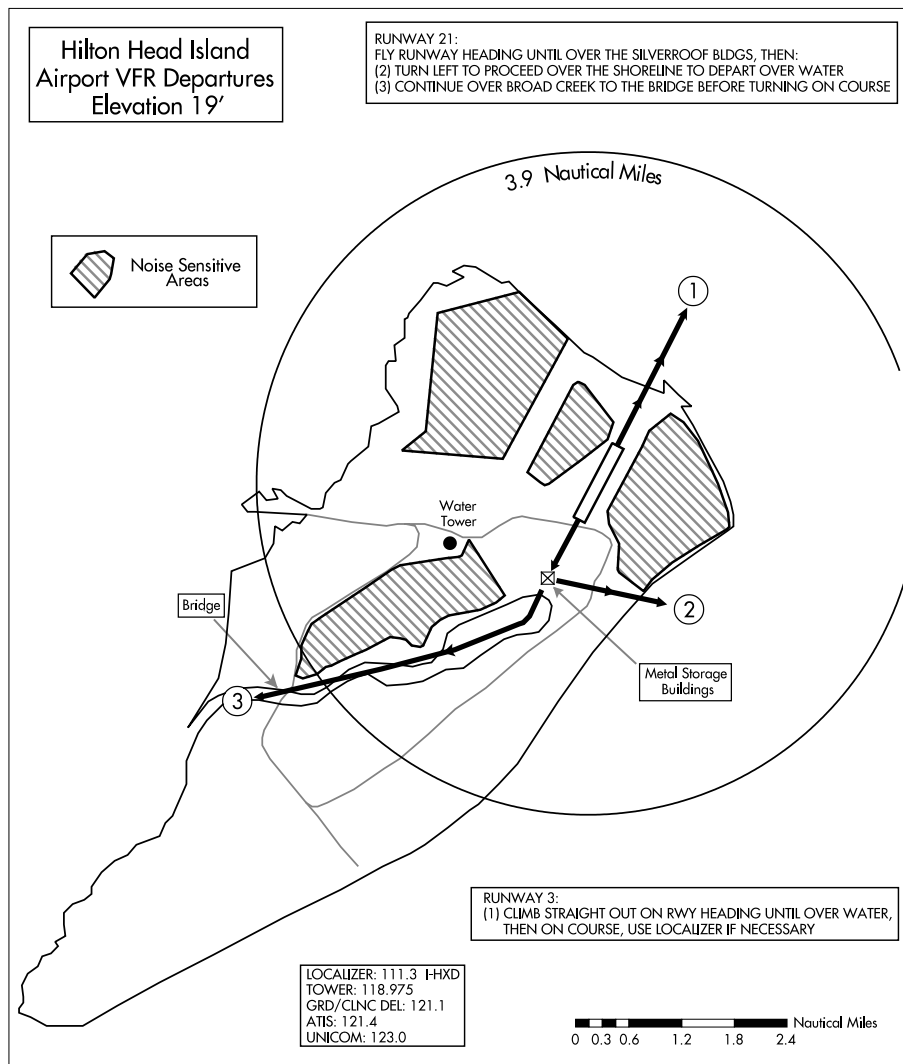
NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.



DISNEY WORLD THEME PARK**NOTICE**

Pursuant to Public Law 108–199, Section 521, aircraft flight operations are prohibited at and below 3,000 feet AGL within a 3 nautical mile radius of the Disney World Theme Park (282445N/081342W or the Orlando (ORL) VORTAC 238 degree radial at 14.8 nautical miles). This restriction does not apply to: (A) those aircraft authorized by ATC for operational or safety purposes, including aircraft arriving or departing from an airport using standard air traffic procedures; (B) Department of Defense, law enforcement, or aeromedical flight operations that are in contact with ATC; Those who meet any of the following criteria may apply for a waiver to these restrictions: (A) for operational purposes of the venue, including the transportation of equipment or officials of the governing body; (b) for safety and security purposes of the venue.





BOWMAN FIELD

LOUISVILLE, KY

TERMINAL AREA GRAPHIC NOTICE

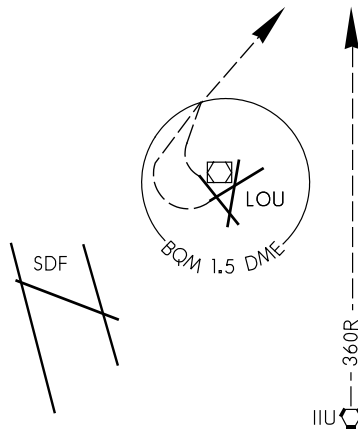
(Not to be used for navigation)

Bowman Airport Runway 24 and Runway 33 VFR Departure Procedure.

"SENECA DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.

ATIS 112.2
 LOUISVILLE APP CON
 132.075
 BOWMAN TOWER★
 119.5
 GND CON
 121.8
 CLNC DEL
 118.9



Remaining within $1\frac{1}{2}$ miles from Bowman VOR (BQM), turn right heading 045, maintaining VFR at or below 2500 feet. Expect IFR activation and climb upon crossing the IIU 360 radial

WEATHER MINIMUMS: Ceiling 3000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 2500 feet constitutes activation of IFR clearance upon leaving 2500 feet.

HOLLYWOOD/NORTH PERRY (HWO)**HOLLYWOOD, FL**

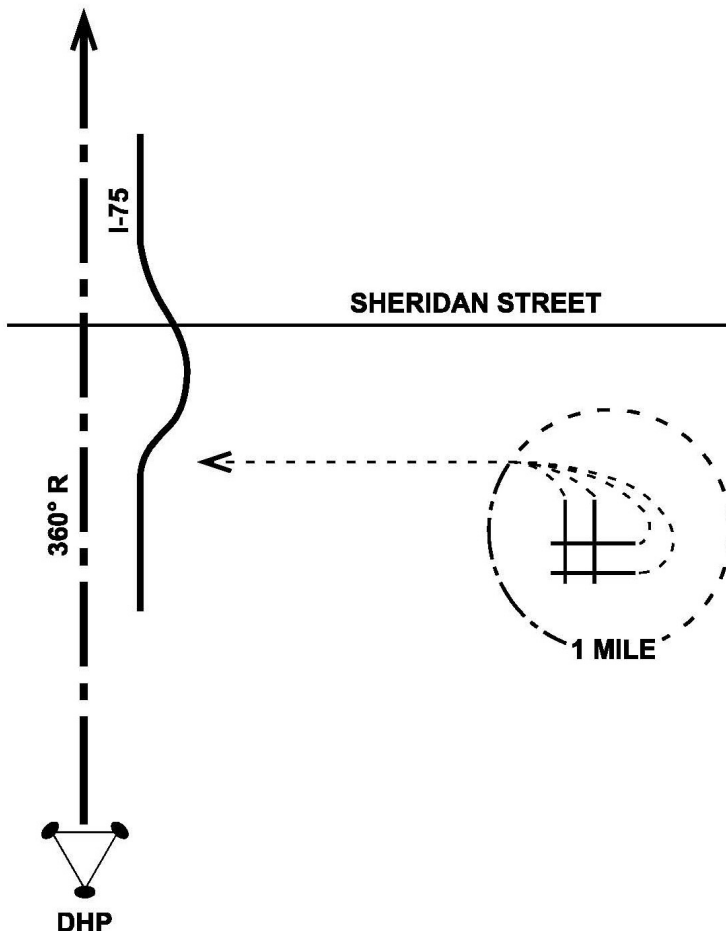
TERMINAL AREA GRAPHIC NOTICE

(Not to be used for navigation)

Hollywood/North Perry Airport Runway 9L, 9R, 36L and 36R VFR Departure Procedure.

"SHERIDAN DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



ATIS 135.475

MIAMI APPROACH CONTROL 128.6

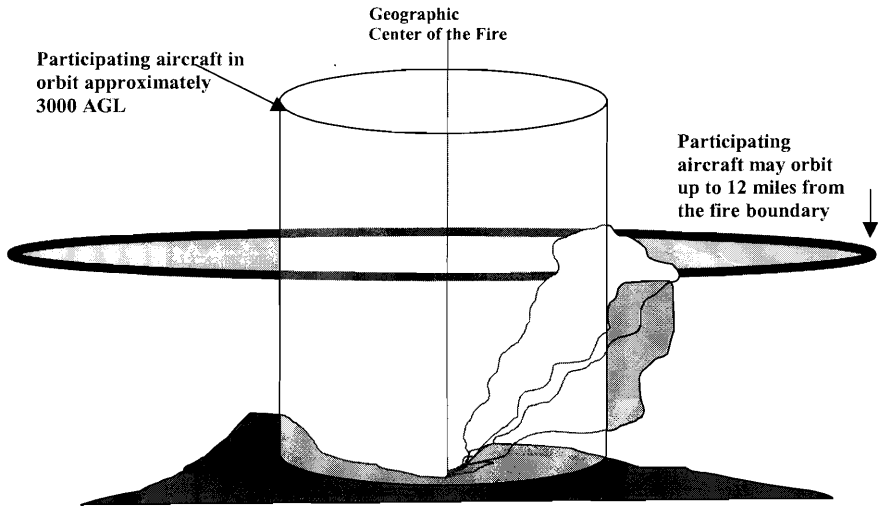
NORTH PERRY TOWER 132.1

GROUND CONTROL 120.45

Remain within 1 mile from HWO airport, if departing north or east turn left to heading 260. Remain south of Sheridan Street VFR at or below 1500. Expect IFR activation and climb crossing I75 (5 miles west of HWO) or the DHP 360 radial.

WEATHER MINIMUMS: Ceiling 2000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 1500 constitutes activation of IFR clearance.

FIREFIGHTING TRAFFIC AREAS

Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, Patterns, and/or Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

DESTIN–FT WALTON BEACH, FLORIDA VALPARAISO TERMINAL AREA

Part 93, Subpart F, prescribes that Valparaiso, Florida, Terminal Area, and the special air traffic rules for operating aircraft within specific corridor.

– North-South Corridor.

Before operating within the corridor, obtain a clearance from the Eglin Radar Control Facility or an appropriate FAA ATC facility, and maintain two-way radio communication with the Eglin Radar Control Facility while within the corridor.

– East-West Corridor.

Before operating within the corridor, establish two-way radio communications with Eglin Radar Control Facility or an appropriate FAA ATC facility for an ATC advisory concerning operations being conducted therein; and maintain two-way radio communications with the Eglin Radar Control Facility while within the corridor. For Destin/Eglin AFB FL Part 93 Operations details, see FAA Safety.gov Knowledge Course at: http://faasafety.gov/gslac/ALC/course_catalog.aspx.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93–1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1–800–875–9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703–707–0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904–4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904–4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

FSS TELEPHONE NUMBERS

Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large FSS facilities and a few select remote facilities some of which operate part-time. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

Telephone Information Briefing Service (TIBS) is a FSS service that provides continuous recordings of meteorological and/or aeronautical information. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

Pilot Weather Briefings 1-800-WX-BRIEF (1-800-992-7433)

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above) 1-877-4TIBS-WX (1-877-484-2799)

Clearance Delivery Only 1-888-766-8267

Lifeguard Flights Only 1-877-LIF-GRD3 (1-877-543-4733)

Flights within DC SFRA & FRZ * 1-866-225-7410

* District of Columbia Special Flight Rules Area & Flight Restricted Zone

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT
FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA
OVC008CB
FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR
FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB
18/16 A2992 RMK SLP045 T01820159

| Forecast | Explanation | Report |
|----------------|--|--------------------|
| TAF | Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report | METAR |
| KPIT | ICAO location indicator | KPIT |
| 091730Z | Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time | 091955Z |
| 091818 | Valid period: 2-digit date, 2-digit beginning, 2-digit ending times | |
| | In U.S. METAR : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on | COR |
| 15005KT | Wind: 3 digit true-north direction, nearest 10 degrees (or <u>Var</u> ia <u>ble</u>); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>Gust</u> and maximum speed; 00000KT for calm; for METAR , if direction varies 60 degrees or more, <u>Variability</u> appended, e.g. 180 <u>V</u> 260 | 22015G25KT |
| 5SM | Prevailing visibility: in U.S., <u>Statute Miles</u> & fractions; above 6 miles in TAF <u>Plus</u> 6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction) | 3/4SM |
| | Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>"I"</u> ; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>FeeT</u> in U.S., (usually meters elsewhere); 4-digit value <u>Variability</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No</u> change) | R28L/2600FT |
| HZ | Significant present, forecast and recent weather: see table (on back) | TSRA |
| FEW020 | Cloud amount, height and type: <u>SKY</u> <u>Clear</u> 0/8, <u>FEW</u> >0/8-2/8, <u>SCaT</u> tered 3/8-4/8, <u>BroKeN</u> 5/8-7/8, <u>OVerCast</u> 8/8; 3-digit height in hundreds of ft; <u>Towering CU</u> mulus or <u>CumulonimBus</u> in METAR ; in TAF , only <u>CB</u> . <u>Vertical</u> Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, <u>CLeaR</u> for "clear below 12,000 feet" | OVC010CB |
| | Temperature: degrees Celsius; first 2 digits, temperature <u>"I"</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06 | 18/16 |
| | Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; (<u>Q</u> -hectoPascals, e.g., Q1013) | A2992 |

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

| Forecast | Explanation | Report |
|----------------------|--|---|
| WS010/31022KT | In U.S. TAF , non-convective low-level ($\leq 2,000$ ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); <u>"Z"</u> ; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u> | RMK SLP045 T01820159 |
| FM1930 | In METAR , <u>ReMark</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/dew-point</u> in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C | |
| TEMPO 2022 | <u>From</u> and 2-digit hour and 2-digit minute beginning time: indicates significant change. Each FM starts on new line, indented 5 spaces. | |
| PROB40 0407 | TEMPO rary: changes expected for < 1 hour and in total, < half of 2-digit hour beginning and 2-digit hour ending time period | |
| BECMG 1315 | PROB ability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period | |
| | BEC oMinG: change expected during 2-digit hour beginning and 2-digit hour ending time period | |

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

QUALIFIER

Intensity or Proximity

- Light "no sign" Moderate + Heavy

VC Vicinity: but not at aerodrome; in U.S. **METAR**, between 5 and 10SM of the point(s) of observation; in U.S. **TAF**, 5 to 10SM from center of runway complex (elsewhere within 8000m)

Descriptor

| | | | |
|------------|------------|-------------|-----------------|
| MI Shallow | BC Patches | PR Partial | TS Thunderstorm |
| BL Blowing | SH Showers | DR Drifting | FZ Freezing |

WEATHER PHENOMENA

Precipitation

| | | | |
|--|----------------|---------|----------------------------|
| DZ Drizzle | RA Rain | SN Snow | SG Snow grains |
| IC Ice crystals | PL Ice pellets | GR Hail | GS Small hail/snow pellets |
| UP Unknown precipitation in automated observations | | | |

Obscuration

| | | | |
|--------------------------|----------------------|----------|--------------------|
| BR Mist ($\geq 5/8$ SM) | FG Fog ($< 5/8$ SM) | FU Smoke | VA Volcanic ash |
| SA Sand | HZ Haze | PY Spray | DU Widespread dust |

Other

| | | | |
|-----------------|------------------------|--------------|------------------------------------|
| SQ Squall | SS Sandstorm | DS Duststorm | PO Well developed dust/sand whirls |
| FC Funnel cloud | +FC tornado/waterspout | | |

- Explanations in parentheses "()" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥ 10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052

National Oceanic and Atmospheric Administration—National Weather Service

FAA AND NWS

KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number.....703-904-4400

RGNL AIR TRAFFIC DIVISIONS

| REGION | TELEPHONE |
|--------------------|--------------|
| Alaskan | 907-271-5464 |
| Central | 816-329-2500 |
| Eastern | 718-553-4502 |
| Great Lakes | 847-294-7202 |
| New England | 781-238-7500 |
| Northwest Mountain | 425-227-2500 |
| Southern | 404-305-5500 |
| Southwest | 817-222-5500 |
| Western Pacific | 310-725-6500 |

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

| ARTCC NAME | *24 HR RGNL DUTY OFFICE TELEPHONE # | BUSINESS HOURS | BUSINESS TELEPHONE # |
|----------------|---|---------------------|-------------------------|
| Albuquerque | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 505-856-4300 |
| Anchorage | 907-271-5936 | 7:30 a.m.-4:00 p.m. | 907-269-1137 |
| Atlanta | 404-305-5180 | 7:30 a.m.-5:00 p.m. | 770-210-7601 |
| Boston | 617-238-7001 | 7:30 a.m.-4:00 p.m. | 603-879-6633 |
| Chicago | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 630-906-8221 |
| Cleveland | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 440-774-0310 |
| Denver | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 303-651-4100 |
| Ft. Worth | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 817-858-7300 |
| Houston | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 281-230-5300 |
| Indianapolis | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 317-247-2231 |
| Jacksonville | 404-305-5180 | 8:00 a.m.-4:30 p.m. | 904-549-1501 |
| Kansas City | 816-329-3000 | 7:30 a.m.-4:00 p.m. | 913-254-8500 |
| Los Angeles | 661-265-8200 | 7:30 a.m.-4:00 p.m. | 661-265-8200 |
| Memphis | 404-305-5180 | 7:30 a.m.-4:00 p.m. | 901-368-8103 |
| Miami | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 305-716-1500 |
| Minneapolis | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 651-463-5580 |
| New York | 718-995-5426 | 8:00 a.m.-4:40 p.m. | 516-468-1001 |
| Oakland | 310-725-3300 | 6:30 a.m.-3:00 p.m. | 510-745-3331 |
| Salt Lake City | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 801-320-2500 |
| Seattle | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 253-351-3500 |
| Washington | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 703-771-3401 |

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

| TRACON NAME | *24 HR RGNL DUTY OFFICE TELEPHONE # | BUSINESS HOURS | BUSINESS TELEPHONE # |
|------------------|---|---------------------|-------------------------|
| Atlanta | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 404-669-1200 |
| Chicago | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 847-608-5509 |
| Dallas/Ft. Worth | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 972-615-2500 |
| Denver | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 303-342-1500 |
| Houston | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 281-230-8400 |
| New York | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 516-683-2901 |
| Northern CA | 310-725-3300 | 7:00 a.m.-3:30 p.m. | 916-366-4001 |
| Potomac | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 540-349-7500 |
| Southern CA | 310-725-3300 | 7:30 a.m.-4:00 p.m. | 858-537-5800 |

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

KEY AIR TRAFFIC FACILITIES **DAILY NAS REPORTABLE AIRPORTS**

| AIRPORT NAME | *24 HR RGNL DUTY OFFICE TELEPHONE # | BUSINESS HOURS | BUSINESS TELEPHONE # |
|--|--|---------------------------|---------------------------------|
| Albuquerque Intl Sunport, NM | 817-222-5006 | 8:00 a.m.-5:00 p.m. | 505-842-4366 |
| Andrews AFB, MD | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 301-735-2380 |
| Baltimore/Washington Intl Thurgood Marshall, MD | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 410-962-3555 |
| Boston Logan Intl, MA | 781-238-7001 | 7:30 a.m.-4:00 p.m. | 617-455-3100 |
| Bradley Intl, CT | 617-238-7001 | 7:30 a.m.-4:00 p.m. | 203-627-3428 |
| Burbank/Bob Hope, CA | 310-725-3300 | 7:00 a.m.-5:30 p.m. | 818-567-4806 |
| Charlotte Douglas Intl, NC | 404-305-5180 | 8:00 a.m.-4:30 p.m. | 704-344-6487 |
| Chicago Midway, IL | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 773-884-3670 |
| Chicago O'Hare Intl, IL | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 773-601-7600 |
| Cleveland Hopkins Intl, OH | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 216-898-2020 |
| Covington/Cincinnati, OH | 708-294-7401 | 8:00 a.m.-4:30 p.m. | 606-767-1006 |
| Dallas/Ft. Worth Intl, TX | 817-222-5006 | 8:30 a.m.-5:00 p.m. | 972-615-2531 |
| Dayton Cox Intl, OH | 847-294-8400 | 7:30 a.m.-4:00 p.m. | 937-454-7300 |
| Denver Intl, CO | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 303-342-1600 |
| Detroit Metro, MI | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 734-955-5000 |
| Fairbanks Intl, AK | 907-271-5936 | 7:30 a.m.-4:00 p.m. | 907-474-0050 |
| Fort Lauderdale Intl, FL | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 305-356-7932 |
| George Bush Intercontinental/Houston, TX | 817-222-5006 | 7:30 a.m.-4:00 p.m. | 713-230-8400 |
| Hartsfield-Jackson Atlanta Intl, GA | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 404-669-1200 |
| Honolulu Intl, HI | 310-643-3200 | 7:30 a.m.-4:00 p.m. | 808-840-6100 |
| Houston Hobby, TX | 817-222-5006 | 8:00 a.m.-5:00 p.m. | 713-847-1400 |
| Indianapolis Intl, IN | 847-294-8400 | 8:00 a.m.-4:00 p.m. | 317-484-6600 |
| Kahului/Maui, HI | 310-643-3200 | 7:30 a.m.-4:00 p.m. | 808-877-0725 |
| Kansas City Intl, MO | 816-329-3000 | 7:30 a.m.-4:00 p.m. | 816-329-2700 |
| Las Vegas McCarran, NV | 310-725-3300 | 7:30 a.m.-4:00 p.m. | 702-262-5978 |
| Los Angeles Intl, CA | 310-725-3300 | 7:00 a.m.-3:30 p.m. | 310-342-4900 |
| Louis Armstrong New Orleans Intl, LA | 817-222-5006 | 7:00 a.m.-4:30 p.m. | 504-471-4300 |
| Memphis Intl, TN | 404-305-5180 | 7:30 a.m.-4:00 p.m. | 901-322-3350 |
| Miami Intl, FL | 404-305-5180 | 7:00 a.m.-4:00 p.m. | 305-869-5400 |
| Minneapolis/St. Paul, MN | 847-294-8400 | 8:00 a.m.-4:00p.m. | 612-713-4000 |
| Nashville Intl, TN | 404-305-5180 | 7:00 a.m.-3:30 p.m. | 615-781-5460 |
| New York Kennedy Intl, NY | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 718-656-0335 |
| New York La Guardia, NY | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 718-335-5461 |
| Newark Liberty Intl, NJ | 718-995-5426 | 7:30 a.m.-4:00 p.m. | 973-565-5000 |
| Norman Y. Mineta San Jose Intl, CA | 310-643-3200 | 7:30 a.m.-4:00 p.m. | 408-982-0750 |
| Ontario Intl, CA | 310-643-3200 | 7:30 a.m.-4:00 p.m. | 909-983-7518 |
| Orlando Intl, FL | 404-305-5180 | 7:30 a.m.-5:00 p.m. | 407-850-7000 |
| Philadelphia Intl, PA | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 215-492-4100 |
| Phoenix Sky Harbor Intl, AZ | 310-643-3200 | 7:30 a.m.-4:00 p.m. | 602-379-4226 |
| Pittsburgh Intl, PA | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 412-269-9237 |
| Portland Intl, OR | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 503-493-7500 |
| Raleigh-Durham, NC | 404-305-5180 | 8:00 a.m.-4:30 p.m. | 919-840-5544 |
| Ronald Reagan Washington National, DC | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 703-413-1535 |
| Salt Lake City, UT | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 801-325-9600 |
| San Antonio Intl, TX | 817-222-5006 | 8:00 a.m.-4:30 p.m. | 210-805-5507 |
| San Diego Lindbergh Intl, CA | 310-725-3300 | 8:00 a.m.-4:30 p.m. | 619-299-0677 |
| San Francisco Intl, CA | 310-643-3200 | 7:00 a.m.-3:30 p.m. | 650-876-2883 |
| San Juan Intl, PR | 404-305-5180 | 7:30 a.m.-5:00 p.m. | 809-253-8663 |
| Seattle-Tacoma Intl, WA | 425-227-1389 | 7:30 a.m.-4:00 p.m. | 206-768-2900 |
| St. Louis Lambert, MO | 816-329-3000 | 7:30 a.m.-4:00 p.m. | 314-890-1000 |
| Tampa Intl, FL | 404-305-5180 | 7:30 a.m.-4:00 p.m. | 813-371-7700 |
| Ted Stevens Anchorage Intl, AK | 907-271-5936 | 7:30 a.m.-4:00 p.m. | 907-271-2700 |
| Teterboro, NJ | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 201-288-1889 |
| Washington Dulles Intl, DC | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 703-661-6031 |
| West Palm Beach, FL | 404-305-5180 | 8:00 a.m.-4:30 p.m. | 561-683-1867 |
| Westchester Co, NY | 718-995-5426 | 8:00 a.m.-4:30 p.m. | 914-948-6520 |

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

® ATLANTA CENTER
H-6-9-10-12, L-18-22-24-25-26-36, A-1
(KZTL)

Albemarle - 133.15
 Anniston - 134.95
 Athens - **127.5** 127.5 124.45 **120.425**
 Atlanta A - 135.0
 Augusta - 128.1
 Birmingham - 134.05 **128.725**
 Black Jack Mountain - 127.05
 Chattanooga - **133.175** 132.05 **126.675** 124.875
 Columbus - **125.575** 120.45
 Crossville - 133.6 **132.675** **125.925**
 Foothills - **124.375**
 Gadsden - 133.8
 Glade Springs - 127.85
 Greensboro - 128.8 **124.425**
 Hampton - 128.0 **127.125** **126.475** 124.325
 Hickory - 134.55 **132.975** 125.15
 Huntsville - **126.825**
 Jonesville - 132.625 **125.025**
 Macon - 134.5 **126.425** 123.95 **119.575**
 Millen - 135.55
 Monroeville - 118.55
 Montgomery - **134.6** **128.025** **125.875** 120.55
 Mount Oglethorpe - 134.8 133.1 121.35
 Newport - **134.075** 127.55
 Owing - 135.35 **125.625** **123.725**
 Statham - **132.475** 132.475
 Sugarloaf Mountain - 132.625
 Tri City - **126.775** **120.725**
 Uniontown - 133.25 132.25

® HOUSTON CENTER - 134.35
H-6-7-8-9, L-17-18-19-20-21-22
(KZHU)

Arr-Dep US - 135.77 134.95 **133.75** 133.4 **132.65** 132.4 128.3 **127.8** 125.75 120.35
 Mobile - 127.65 **125.775**

® INDIANAPOLIS CENTER - 133.425 132.775 128.375 125.55
H-5-9-10-12, L-16-25-26-27-29
(KZID)

124.525 119.55
 Evansville - **132.525** 128.3
 Livingston - **134.675** **126.925**
 London 2 - 126.57 124.625 121.325
 Lynch - 126.575
 New Hope - 124.625 121.175
 Portsmouth - 124.225 **120.275**
 Tri City - **124.575**
 Winchester - **128.22** 126.375 **123.775**

® JACKSONVILLE CENTER
H-6-7-8-9-12, L-18-21-22-24-25-35-36, A-1
(KZJX)

Arr-Dep US-South Atlantic Control N of 31°30' — 135.05 S of 31°30'N 134.85
 Albany - 134.45 125.75
 Alma - **135.975** **133.3** 132.3
 Charleston - **135.05** **133.625** **132.475** 127.95 **124.075**
 Columbia - **127.875** 124.7
 Crestview - 134.15 **124.475** 120.2
 Daytona Beach - 134.0
 Dothan - 134.3
 Eglin - 132.1
 Florence - 134.35 133.45
 Gainesville - **135.65** 134.4 124.75
 Glynnco - 126.75
 Jacksonville - **134.85** 126.35
 Lake City - 125.375
 Lowell - 135.75 133.325 **125.175**
 Millen - 132.5
 Myrtle Beach - **135.05** 128.7

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Panama City – 119.1
 Perry Foley – 127.8
 St. Augustine – 134.575 132.825 127.475 126.35
 Savannah – 132.425 126.125 120.85
 Tallahassee – 135.325 128.625 128.075 125.05
 Valdosta – 133.7 125.95

® MEMPHIS CENTER — 127.975 124.025
H-5-6-9, L-15-16-17-18-22-25-26
(KZME)

Columbus – 134.775 133.125 127.1
 Graham – 125.85 124.275
 Huntsville – 120.8
 McKellar – 134.65 127.975 126.45 124.35
 Memphis – 135.225 118.625
 Nashville – 133.85 124.125 118.875
 Nashville/Joelton 132.1
 Paducah – 133.65
 Shelbyville – 126.75
 South Fulton – 128.05
 Tupelo – 135.9 135.9 134.4

® MIAMI CENTER
H-8, L-21-22-23-24, A-1
(KZMA)

Avon Park – 134.55 127.2 126.525
 Fort Myers – 134.75 133.275
 Grand Bahama Island – 134.2
 Grand Turk – 135.2 132.3
 Key West – 133.5 132.2 132.2 124.7 124.7
 Melbourne – 135.075 128.65 124.1 119.825
 Miami – 132.95 133.85 133.2 133.95 132.4 127.7 126.325 124.7 124.7
 Nassau – 134.8 125.7
 Pahokee – 133.55 132.45
 Sarasota – 133.9 132.35 128.225
 Vero Beach – 135.7 132.25 125.075
 West Palm Beach – 135.175 133.4 132.15

CENTER REMARKS: All northbound IFR flights entering Miami in vicinity of Grand Turk and Great Inagua must contact Miami Center on 132.3/307.2 at least 10 minutes prior to the Miami Center boundary for an air traffic clearance. Alternate communications are avbl thru ARINC or Miami Radio. This is due to heavy air traffic congestion in this area.

® SAN JUAN CENTER
H-2-3, L-5-6
(ZSU) (MJJS)

Borinquen – 135.7 135.7 124.35
 El Yunque – 134.3 134.3 128.65 128.6 125.0 125.0 118.75 118.75 118.15 118.15
 Pico Del Este – 134.3 134.3 128.65 128.65 125.0 125.0 118.15 118.15

CENTER REMARKS: All acft on an IFR flight plan in the San Juan CTA and within 200 NM of San Juan are requested to ctc San Juan Center on the following frequencies: Amber 300 clockwise thru Amber 523—134.3; East of Amber 523 clockwise to North of Blue 520—125.0; Blue 520 clockwise thru Amber 636—118.15; Red 763 clockwise thru Green 431—135.7. San Juan Cerap provides IFR clearances for St Croix Christiansted on freq 121.7 when St Croix twr closed. San Juan Cerap provides IFR clearances for St Thomas Charlotte Amalie-Harry S Truman on freq 121.9 when twr closed. San Juan Cerap provides IFR clearances for Ponce-Mercedita on freq 121.9. San Juan Cerap provides IFR clearances for Mayaguez-Eugenio Maria De Hostos on freq 121.7.

® WASHINGTON CENTER
H-9-10-12, L-24-25-26-29-34-35-36
(KZDC)

Arr-Dep US – 135.5 133.82 133.12 132.55 128.52 127.7 127.42 124.02 123.85 118.82
 Green Bay – 133.725 127.75
 Johnsonville – 135.2 118.925
 Manteo – 124.725
 New Bern – 135.5 118.825
 Rocky Mount – 118.475 132.225
 Sampson – 135.3
 Whaleyville – 133.825 128.525 127.425 123.85
 Wilmington – 124.025

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

ANDERSON AFSS

AIKEN RCO 122.45
 ALLENDALE VOR 116.7T 122.1R
 ANDERSON RCO 122.2 123.6
 CHARLESTON VORTAC 113.5T 122.1R 122.2 122.5
 CHESTERFIELD VOR/DME 108.2T 122.05R
 COLLIERS VORTAC 113.9T 122.1R
 COLUMBIA VORTAC 114.7T 122.1R 122.65
 FLORENCE VORTAC 115.2T 122.1R 122.6
 FOOTHILLS VORTAC 113.4T 122.1R
 FORT MILL VORTAC 112.4T 122.1R
 GRAND STRAND VORTAC 117.6T 122.1R 123.6
 GREENWOOD VORTAC 115.5T 122.1R 122.625
 GREER RCO 122.2 122.65
 HILTON HEAD ISLAND RCO 122.55
 SPARTANBURG VORTAC 115.7T 122.1R
 VANCE VORTAC 110.4T 122.1R

ANNISTON AFSS

ANNISTON RCO 122.2 123.6
 BIRMINGHAM RCO 122.2 123.65
 BROOKLEY VORTAC 112.8T 122.1R
 CRIMSON VORTAC 117.8T 122.1R
 DECATUR RCO 122.6
 DOTHAN RCO 122.2 122.5
 EUFAULA VORTAC 109.2T 122.1R
 GADSDEN VOR/DME 112.3T 122.1R
 HAMILTON RCO 122.3
 HUNTSVILLE RCO 122.2
 MOBILE RCO 122.2 123.65
 MONROEVILLE VORTAC 116.8T 122.1R
 MONTGOMERY VORTAC 112.1T 122.1R 122.2 122.55
 MUSCLE SHOALS RCO 122.2 122.4
 SELMA RCO 122.4
 TALLADEGA VOR/DME 108.8T 122.05R
 TUSCALOOSA RCO 122.2
 TUSKEGEE VOR/DME 117.3T 122.1R
 VULCAN VORTAC 114.4T 122.1R
 WIREGRASS VORTAC 111.6T 122.1R

GAINESVILLE AFSS 122.1R 122.2 122.5 123.65

CRAIG VORTAC 114.5T 122.1R 122.2 122.45
 CRESTVIEW RCO 122.0 122.2 122.45
 CROSS CITY VORTAC 112.0T 122.1R
 GATORS VORTAC 116.2T 122.1R
 GREENVILLE VORTAC 109.0T 122.1R
 LAKE CITY RCO 122.6
 MARIANNA VORTAC 114.0T 122.1R
 OCALA VORTAC 113.7T 122.1R
 PALATKA RCO 122.25
 PANAMA CITY VORTAC 114.3T 122.1R
 PENSACOLA RCO 122.2 122.6
 PERRY RCO 122.45
 ST AUGUSTINE RCO 122.3
 SAUFLEY VOR 108.8T 122.1R
 SEMINOLE VORTAC 117.5T 122.1R 122.2 122.4
 TAYLOR VORTAC 112.9T 122.1R

JACKSON AFSS

CLARKSVILLE VOR/DME 110.6T 122.1R
DYERSBURG RCO 122.2 122.45
GRAHAM VORTAC 111.6T 122.1R 122.25
JACKS CREEK VOR/DME 109.4T 122.1R
JACKSON RCO 122.2 **122.65** 127.15
MEMPHIS VORTAC 117.5T 122.1R 122.2 123.65

LOUISVILLE AFSS

BOWLING GREEN RCO 122.2 122.4
CENTRAL CITY VORTAC 109.8T 122.1R
CINCINNATI VORTAC 117.3T 122.1R
FALMOUTH VOR/DME 117.0T 122.1R
FRANKFORT VOR 109.4T 122.1R
HAZARD VOR/DME 111.2T 122.1R
LEXINGTON VORTAC 112.6T 122.1R
LONDON VORTAC 116.1T 122.1R 122.2 122.65
LOUISVILLE RCO 122.1R 122.2 **122.45**
MADISON RCO 122.3
NEW HOPE VOR/DME 110.8T 122.1R
NEWCOMBE VORTAC 110.4T 122.1R
OWENSBORO VOR/DME 108.6T 122.1R
PADUCAH RCO 122.2 122.5
PIKEVILLE RCO 122.05
SOMERSET RCO 122.55
YORK VORTAC 112.8T 122.1R

MACON AFSS

ALBANY RCO 122.6
 ALMA VORTAC 115.1T 122.1R 123.6
 ATHENS VORTAC 109.6T 122.1R
 ATLANTA VORTAC 116.9T 122.1R 122.2 122.6
 BRUNSWICK VORTAC 109.8T 122.1R 122.2
 CHOO CHOO VORTAC 115.8T 122.1R
 COLUMBUS VORTAC 117.1T 122.1R 122.65
 DANIEL RCO 122.3
 DUBLIN VORTAC 113.1T 122.1R 122.6
 GAINESVILLE RCO 122.55
 HARRIS RCO 122.35
 LAGRANGE VORTAC 115.6T 122.1R
 MACON RCO 122.1R 122.2 122.4
 MOULTRIE VOR/DME 108.8T 122.1R
 PEACHTREE VOR/DME 116.6T 122.1R
 ROME RCO 122.3
 SAVANNAH VORTAC 115.95T 122.1R 123.65
 STATESBORO RCO 122.6
 THOMASVILLE RCO 122.55
 TIFT MYERS RCO 122.35
 VALDOSTA VOR/DME 114.8T 122.1R 122.2
 VIENNA VORTAC 116.5T 122.1R
 WAYCROSS VORTAC 110.2T 122.1R

MIAMI AFSS 122.2 122.3 **122.55** 123.65**MIAMI IFSS** 127.9 126.9 126.7

DADE COLLIER RCO 122.3
 DAVIE RCO 126.7
 DOLPHIN VORTAC 113.9T 122.1R
 FORT MYERS RCO 122.1R 122.2 **122.65**
 FORT PIERCE RCO 122.55
 KEY WEST VORTAC 113.5T 122.1R 122.2 **123.65**
 LA BELLE VORTAC 110.4T 122.1R
 MARATHON RCO 122.6
 NAPLES RCO 123.6
 PAHOKEE VORTAC 115.4T 122.1R 122.35
 PALM BEACH VORTAC 115.7T 122.1R 122.4
 VIRGINIA KEY VOR/DME 117.1T 122.1R

NASHVILLE AFSS

BRISTOL RCO 122.2
CHATTANOOGA RCO 122.2 123.65
CROSSVILLE RCO 122.2 122.5
HINCH MOUNTAIN VORTAC 117.6T 122.1R
HOLSTON MOUNTAIN VORTAC 114.6T 122.1R
LIVINGSTON VORTAC 108.4T 122.1R
MCGHEE TYSON RCO 122.2 122.3
NASHVILLE RCO 114.1T 122.1R 122.2 122.55
SHELBYVILLE VOR/DME 109.0T 122.1R
VOLUNTEER VORTAC 116.4T 122.1R

RALEIGH AFSS

BARRETTS MOUNTAIN VOR/DME 110.8T 122.1R
CHARLOTTE RCO 122.4
COFIELD VORTAC 114.6T 122.1R
ELIZABETH CITY VOR/DME 112.5T 122.05R 122.2
FAYETTEVILLE VOR/DME 108.8T 122.1R
GREENSBORO VORTAC 116.2T 122.1R 122.2 123.65
HATTERAS RCO 122.3
HICKORY RCO 122.2 122.6
KINSTON VORTAC 109.6T 122.15R
LIBERTY VORTAC 113.0T 122.1R
NEW BERN VOR/DME 113.6T 122.1R 122.2 122.4
PITT-GREENVILLE RCO 122.35
RALEIGH RCO 122.2 122.45 122.65
ROCKY MOUNT RCO 122.2 122.3
SANDHILLS VORTAC 111.8T 122.1R
SNOWBIRD VORTAC 108.8T 122.1R
SUGARLOAF MOUNTAIN VORTAC 112.2T 122.1R 122.2 122.3
TAR RIVER VORTAC 117.8T 122.1R
WILKESBORO RCO 122.4
WILMINGTON VORTAC 117.0T 122.1R 122.55

SAINT PETERSBURG AFSS

BROOKSVILLE RCO 122.3
FORT DRUM RCO 122.2
LAKELAND VORTAC 116.0T 122.1R
MELBOURNE VOR/DME 110.0T 122.1R 122.6
ORLANDO VORTAC 112.2T 122.1R 122.2 **122.65** 123.65
ORMOND BEACH VORTAC 112.6T 122.1R 122.4
PUNTA GORDA RCO 122.025
ST PETERSBURG VORTAC 116.4T 122.1R 122.2 122.45 123.6
SARASOTA VORTAC 115.2T 122.1R
SEBRING RCO 122.25
TITUSVILLE RCO 123.6
VERO BEACH VORTAC 117.3T 122.1R 122.2 122.5

SAN JUAN AIFSS

BORINQUEN VORTAC 113.5T 122.1R
MAYAGUEZ VOR/DME 110.6T 122.1R
PONCE VOR/DME 109.0T 122.1R
ST CROIX VOR/DME 108.2T 122.1R
ST THOMAS VOR/DME 108.6T 123.6R
SAN JUAN RCO 126.7 123.65 122.2

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

ALABAMA

Liberty Park Building 1500, Suite 250
1500 Urban Center Drive
Vestavia Hills, AL 35242
Telephone: 205-731-1557

FLORIDA

Ft. Lauderdale Jet Center
1050 Lee Wagener Blvd.
Ft. Lauderdale, FL 33315
Telephone: 954-635-1300

5950 Hazeltine
National Drive Suite 500
Orlando, FL 32822-5023
Telephone: 407-812-7700
Fax: 407-812-7710

8600 NW 36th Street
Miami, FL 33166
Telephone: 305-716-3400

5601 Mariner St, Suite 310
Tampa, FL 33609
Telephone: 813-287-4900
Fax: 813-639-1551

GEORGIA

Campus Building
1701 Columbia Ave. Suite 2-110
College Park, GA 30337-2748
Telephone: 404-305-7200
Fax: 404-305-7215

KENTUCKY

1930 Bishop Lane
Waterson Towers, 11th Floor
Louisville, KY 40218
Telephone: 502-753-4200

NORTH CAROLINA

6433 Bryan Blvd.
Greensboro, NC 27409
Telephone: 336-662-1000

3800 Arco Corporate Drive, Suite 233
Charlotte, NC 28273
Telephone: 704-319-7020

PUERTO RICO

525 F.D. Roosevelt Ave.
La Torre de Plaza, Suite 901
San Juan, PR 00918
Telephone: 787-764-2538

SOUTH CAROLINA

125-B Summer Lake Drive
West Columbia, SC 29170
Telephone: 803-765-5931

TENNESSEE

2 International Plaza Drive, Suite 700
Nashville, TN 37217
Telephone: 615-324-1300

2842 Business Park Drive, Bldg G
Memphis, TN 38118
Telephone: 901-322-8600

PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
5. Where more than one route is listed the routes have equal priority for use.
6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.
7. Intersection names are spelled out.
8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
9. Where two nav aids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
11. (90–170 incl) altitude flight level assignment in hundred of feet.
12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.
 Sun..... 1300–2259 local time.
 Mon thru Fri 0701–2259 local time.
 Sat 0701–1459 local time.
14. Use current SIDs and STARs for flight planning.
15. For high altitude routes, the portion of the routes contained in brackets is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

| Terminals | Route | Effective Times (UTC) |
|---|--|-----------------------|
| ATLANTA METRO AREA | | |
| Chicago Midway (MDW) | (60–170 incl) V97 NELLO V311 HCH V51 CGT | 1200–0300 |
| Chicago O'Hare (ORD) | (60–170 incl) V97 NELLO V311 HCH V51 CGT V7 BEBEE | 1200–0300 |
| Cincinnati (CVG) | (80–170 incl) V97 VVX V115 AZQ V339 FLM | 1200–0300 |
| CINCINNATI METRO AREA (CVG, LUK) | | |
| Detroit/Wayne (DTW) | DQN MIZAR–STAR | 1100–0300 |
| | or (RNAV only) HAGOL (RNAV)–DP DQN MIZAR–STAR | 1100–0300 |
| Detroit Satellites: | | |
| Ann Arbor (ARB) | DQN CRUXX–STAR | 1100–0300 |
| | or (RNAV only) HAGOL (RNAV)–DP DQN CRUXX–STAR | 1100–0300 |
| Pontiac (PTK), | or (RNAV only) HAGOL (RNAV)–DP DQN CRUXX–STAR | |

| Terminals | Route | Effective Times (UTC) |
|---|--|-----------------------|
| Willow Run (YIP) | (all others) DQN CRUX-STAR | |
| | or | |
| | (RNAV only) HAGOL (RNAV)-DP DQN | |
| | CRUX-STAR | |
| Windsor (CYQG), | or | |
| | (all others) (RNAV only) HAGOL (RNAV)-DP DQN | |
| | V272 KLINE VXV VXV064 LYNTN | |
| Young (DET) | V275 KLINE VVW VVW064 LYNTN | |
| | or | |
| | (RNAV only) HAGOL (RNAV)-DP DQN V275 KLINE | |
| | VXV VXV 064 LYNTN | |
| From COVINGTON (CVG) only | | |
| Atlanta (ATL) | BLUEGRASS-DP HYK V97 VXV V267 HRS V463 | |
| | WOMAC | 1100-0300 |
| Chicago Midway (MDW) | V128 VHP BVT V97 CGT | 1100-0300 |
| Chicago O'Hare (ORD) | V128 VHP BVT V97 CGT V7 BEBEE | 1100-0300 |
| Indianapolis (IND) | V128 VHP | 1100-0300 |
| Knoxville (TYS) | (all others) BLUEGRASS-DP HYK V97 | |
| | or | |
| | (RNAV only) KENLIN (RNAV)-DP HYK V97 | |
| Louisville (SDF) | CVG206 IIU055 IIU | 1100-0300 |
| Pittsburgh (PIT) | (60-170 incl) (all others) RHOMM-DP YRK V44 | |
| | JPU V117 WISKE WISKE-STAR | 1100-0300 |
| | or | |
| | (60-170) (RNAV only) GIPLE (RNAV)-DP YRK V44 | |
| | JPU V117 WISKE WISKE-STAR | 1100-0300 |
| DAYTONA BEACH | | |
| Miami (MIA) | (110 and below) V3 MLB V437 PHK V267 BRIKL.. | 1300-0300 |
| FT LAUDERDALE METRO AREA (FLL, FXE, PMP) | | |
| Cross City (CTY) | (at or below 50) DHP V97 LBV V157 LAL V7 | 1030-0300 |
| | or | |
| | (60-170) V511 LAL V7 | 1030-0300 |
| Daytona Beach (DAB) | (at or below 100) PBI V3 SMYRA | 1030-0300 |
| | or | |
| | (110-170) V159 TBIRD MLB V3 | 1030-0300 |
| Ft. Myers (FMY)(RSW) | (at or below 50) DHP V521 | 1030-0300 |
| Ft. Pierce (FPR) | (at or below 100) V3 | 1030-0300 |
| | or | |
| | (110-170) V159 TBIRD | 1030-0300 |
| Gainesville (GNV) | (at or below 50) DHP V97 LBV V157 | 1030-0300 |
| | or | |
| | (60-170) V511 LAL V157 | 1030-0300 |
| Jacksonville (JAX) | (at or below 90) PBI V3 OMN V51 CRG | 1030-0300 |
| | or | |
| | (130-170) ORL V267 CRG | 1030-0300 |
| | or | |
| | V159 VRB V3 OMN V51 CRG | |
| Lakeland (LAL) | (at or below 50) DHP V97 LBV110 V157 | 1030-0300 |
| | or | |
| | (60-170) V511 | 1030-0300 |
| Melbourne (MLB) | (at or below 100) V3 | 1030-0300 |
| | or | |
| | (110-170) FLL V159 TBIRD | 1030-0300 |
| Ocala (OCF) | (at or below 50) DHP V97 LBV V157 | 1030-0300 |
| | or | |
| | (60-170) V511 LAL V157 | 1030-0300 |
| Orlando (MCO) | (at or below 100) PBI V531 ORL | 1030-0300 |
| | or | |
| | (110-170) V159 TBIRD V531 ORL | 1030-0300 |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| Sarasota/Bradenton (SRQ) | (60–170) LBV V97 ROGAN | 1030–0300 |
| | or | |
| | (60–170) SRQ | 1030–3000 |
| | or | |
| | (at or below 50) DHP V97 ROGAN | 1030–0300 |
| | or | |
| | (60–170) ROGAN | 1030–0300 |
| Tallahassee (TLH) | (at or below 50) DHP V97 LBV V157 LAL V7 SZW . | 1030–0300 |
| | or | |
| | (60–170) V511 LAL V7 SZW | 1030–0300 |
| Tampa (TPA) | (60–170) LBV BRDGE–STAR | 1030–0300 |
| | or | |
| | (60–170) BRDGE BRDGE–STAR | 1030–0300 |
| | or | |
| | (at or below 50) DHP V97 PIE | 1030–0300 |
| | or | |
| | (60–170, GPS or DME/DME–IRU equipped) DEAKK DEAKK (RNAV)–STAR | 1030–0300 |
| | or | |
| | (60–170, GPS or DME/DME–IRU equipped) LBV DEAKK (RNAV)–STAR | 1030–0300 |
| Vero Beach (VRB) | (at or below 100) V3 | 1030–0300 |
| | or | |
| | (110–170) V159 TBIRD | 1030–0300 |
| FORT MYERS METRO AREA (RSW, FMY, APF, MKY, PGD) | | |
| Daytona Beach (DAB) | ORL | 1030–0300 |
| Ft. Lauderdale (FLL) | (RSW/FMY/PGD–prop/turbo) RSW V599 | 1030–0300 |
| | or | |
| | (RSW/FMY/PGD–turbo/jets) FORTL JINGL (RNAV)–STAR | 1030–0300 |
| | or | |
| | (APF/MKY prop/turbo) DRCT | 1030–0300 |
| | or | |
| | FORTL JINGL (RNAV)– STAR | 1030–0300 |
| Ft. Pierce (FPR) | V225 | 1030–0300 |
| Gainesville (GNV) | V7 LAL V157 | 1030–0300 |
| Jacksonville (JAX) | ORL V267 CRG | 1030–0300 |
| Lakeland (LAL) | V7 LAL | 1030–0300 |
| Melbourne (MLB) | V225 VRB | 1030–0300 |
| Miami (MIA) | V35 CURVE | 1030–0300 |
| | or | |
| | (all others) CYY CYY–STAR | 1030–0300 |
| | or | |
| | (Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR | |
| Orlando (MCO) | (Jets) LAL ORL | 1030–0300 |
| | or | |
| | (Turbo/Props) ORL | 1030–0300 |
| | or | |
| | (Jets) LAL MINEE–STAR | 1030–0300 |
| | or | |
| | (Jets) DOWNN MINEE–STAR | 1030–0300 |
| | or | |
| | (Turbo/Props) DOWNN MINEE–STAR | 1030–0300 |
| Ocala (OCF) | V7 LAL V157 | 1030–0300 |
| Tallahassee (TLH) | V7 SZW | 1030–0300 |
| Tampa (TPA) | (at or below 100) V35 PIE | 1030–0300 |
| | or | |
| | (110–170) RSW BRDGE–STAR | 1030–0300 |
| | or | |
| | (GPS or DME/DME–IRU equipped) DEAKK (RNAV)–STAR | 1030–0300 |
| Vero Beach (VRB) | V225 | 1030–0300 |

| Terminals | Route | Effective Times (UTC) |
|--|---|-----------------------|
| GAINESVILLE (GNV) | | |
| Ft. Lauderdale (FLL) | (100 and below) V157 NEWER | 0000-2359 |
| Ft. Myers (FMY) | (100 and below) V157 LAL V521 | 0000-2359 |
| Miami (MIA) | (100 and below) V157 LBV V529 V35 CURVE | 0000-2359 |
| Orlando (ORL) | (100 and below) V157 OCF V159 | 1100-0400 |
| Sarasota/Bradenton (SRQ) | (100 and below) V157 LAL | 0000-2359 |
| Tampa (TPA) | (100 and below) V157 OCF V581 DADES | 0000-2359 |
| JACKSONVILLE METRO AREA (JAX) | | |
| Miami (MIA) | (100 and below) V3 MLB V437 PHK V267 BRIKL.. | 1300-0300 |
| Tampa (TPA) | (100 and below) OCF V581 DADES | 0000-2359 |
| | or | |
| | (100 and below, GPS or DME/DME-IRU equipped) OCF V581 DADES (RNAV)-STAR | 0000-2359 |
| KEY WEST METRO AREA (NQX) | | |
| Daytona Beach (DAB) | RSW ORL | 1030-0300 |
| Ft Myers (RSW) | EYW | 1030-0300 |
| Fort Lauderdale (FLL) | (props) EYW V157 DHP | |
| | or | |
| | (jets-all others) EYW DVALL-STAR | 1030-0300 |
| | or | |
| | (jets-/E./G./R./J./L./Q) EYW CORSO (RNAV)-STAR | 1030-0300 |
| Melbourne (MLB) | EYW PHK | 1030-0300 |
| Miami (MIA) | (props) EYW V157 | |
| | or | |
| | (Jets-all others) EYW DVALL-STAR | 1030-0300 |
| | or | |
| | (Jets-/E./G./R./J./L./Q) EYW CORSO (RNAV)-STAR | 1030-0300 |
| Orlando (MCO) | (props) EYW RSW MINEE-STAR | |
| | or | |
| | (Jets) EYW RSW MINEE-STAR | 1030-0300 |
| Palm Beach (PBI) | EYW PHK | 1030-0300 |
| Sarasota/Bradenton (SRQ) | (at or below 100) EYW RSW V35 MURDO | 1030-0300 |
| | or | |
| | (110-170) EYW RSW V7 ROGAN | |
| Tallahassee (TLH) | EYW RSW V7 SZW | 1030-0300 |
| Tampa (TPA) | (at or below 100) EYW RSW V35 PIE | |
| | or | |
| | (110-170) EYW RSW V7 BRDGE-STAR | 1030-0300 |
| | or | |
| | (110-170, GPS or DME/DME-IRU equipped) EYW V225 | |
| | RSW V7 ROGAN DEAKK (RNAV)-STAR | 1030-0300 |
| Vero Beach (VRB) | EYW PHK V51 | 1030-0300 |
| LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16) | | |
| Ft Lauderdale (FLL) | (Jets only-all others) V7 RSW FORTL-STAR | 1030-0300 |
| Ft. Myers (FMY) | V521 | 1030-0300 |
| Ft Pierce (FPR) | (at or below 140) V441 DEARY V159 | 1030-0300 |
| | or | |
| | (150-170) VRB | 1030-0300 |
| Key West (EYW) | V7 RSW V225 | 1030-0300 |
| Miami (MIA) | (100 and below) V157 LBV V529 V35 CURVE | |
| | or | |
| | (all others) CYY CYY-STAR | 1030-0300 |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR | |
| Opa Locka (OPF) | (props/turbo) V511 NEWER | |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR | |
| Vero Beach (VRB) | (at or below 140) V441 DEARY V159 | 1030-0300 |
| | or | |
| | (150-170) VRB | 1030-0300 |
| West Palm Beach (PBI) | PHK | 1030-0300 |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| LEXINGTON (LEX) | | |
| Atlanta (ATL) | HYK V53 AZQ SOT WHINZ-STAR | |
| LOUISVILLE | | |
| Kansas City (MKC) | V4 PXV V190 SGF TYGER-STAR | 0000-2359 |
| Wichita (ICT) | V4 PXV V190 SGF V132 CNU V350 | 0000-2359 |
| MEMPHIS | | |
| Chicago Midway (MDW) | SPI MOTIF-STAR | 0000-2359 |
| Chicago O'Hare (ORD) | MAW V313 PNT V227 PLANO | 1100-0300 |
| | or | |
| | PNT V227 PLANO | 0000-2359 |
| MIAMI METRO AREA (MIA, HWO, OPF, TMB, HST, X51) | | |
| Cross City (CTY) | V97 LBV V157 LAL V7 | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Daytona Beach (DAB) | (at or below 100) PBI V3 SMYRA | 1030-0300 |
| | or | |
| | (110-170) V437 MLB V3 | 1030-0300 |
| Ft Pierce (FPR) | (at or below 100) PBI V3 | 1030-0300 |
| | or | |
| | (110-170) V267 PHK V51 VRB | 1030-0300 |
| | or | |
| | FPR | |
| Gainesville (GNV) | V97 LBV V157 | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Jacksonville (JAX) | (at or below 90) PBI V3 OMN V51 CRG | 1030-0300 |
| | or | |
| | (at 110) PHK V437 MLB V3 OMN V51 CRG | 1030-0300 |
| | or | |
| | (130-170) V267 CRG | 1030-0300 |
| Lakeland (LAL) | V97 LBV V157 LAL | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Melbourne (MLB) | (at or below 100) V3 | 1030-0300 |
| | or | |
| | (120-170) PBI V531 TBI RD | 1030-0300 |
| New Orleans (MSY) | (below FL180) LBV SRQ AM | 1100-0300 |
| Ocala (OCF) | DHP V97 LBV V157 | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Orlando (MCO) | (at or below 100) PBI V531 ORL | |
| | or | |
| | (110-170) V267 PHK GOOFY-STAR | 1030-0300 |
| Overwater Routes to the Northeast | PERMT ILM or PERMT DIW | |
| Sarasota/Bradenton (SRQ) | V97 ROGAN | 1030-0300 |
| Tallahassee (TLH) | DHP V97 LBV V157 LAL V7 SZW | 1030-0300 |
| Tampa (TPA) | V97 LBV BRDGE-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) V97 LBV | |
| | DEAKK | 1030-0300 |
| Vero Beach (VRB) | (at or below 100) PBI V3 | 1030-0300 |
| | or | |
| | (110-170) V267 PHK V51 | 1030-0300 |
| | or | |
| | (110-170) VRB | 1030-0300 |
| NASHVILLE | | |
| Tallahassee (TLH) | RQZ TDG TGE RRS | 1100-2300 |
| ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB) | | |
| Ft Lauderdale (FLL) | (at or below 100) PHK V267 BRIKL | 1030-0300 |
| | or | |
| | (110-170) PHK V267 BRIKL | 1030-0300 |
| Ft Pierce (FPR) | V159 VRB | 1030-0300 |
| Key West (EYW) | RSW V225 | 1030-0300 |
| Miami (MIA) | (at or below 100) PHK V267 BRIKL | 1030-0300 |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| West Palm Beach (PBI) | (props/turbo props) V159 VRB V295 ST00P V492 | 1030-0300 |
| | or | |
| | (Jets only) PHK | 1030-0300 |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) DEARY VRB FRWAY (RNAV)-STAR | |
| PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA) | | |
| Cross City (CTY) | (at or below 140) V531 BAIRN OCF V159 | |
| | or | |
| | (150-170) LAL V7 | 1030-0300 |
| Daytona Beach (DAB) | V3 SMYRA | 1030-0300 |
| | or | |
| | V531 TBIRD MLB V3 SMYRA | 1030-0300 |
| Ft. Myers (RSW) | RSW | 1030-0300 |
| Jacksonville (JAX) | (at or below 110) V3 VRB V51 CRG | |
| | or | |
| | (130-170) ORL V267 CRG | 1030-0300 |
| Lakeland (LAL) | LBV V157 | 1030-0300 |
| | or | |
| | (SUA Dep) LAL | |
| Melbourne (MLB) | (at or below 100) V3 | |
| | or | |
| | (120-170) PBI V531 TBIRD | 1030-0300 |
| Ocala (OCF) | (at or below 140) V531 BAIRN OCF | |
| | or | |
| | (150-170) LAL OCF | |
| Orlando (ORL/MCO) | V531 BAIRN GOOFY-STAR | 1030-0300 |
| Overwater Routes to the Northeast | A699 STIFF AR7 | |
| Sarasota/Bradenton (SRQ) | LBV V97 ROGAN | |
| | or | |
| | (SUA Dep) SRQ | |
| Tallahassee (TLH) | (at or below 140) V531 BAIRN OCF V159 CTY V7 SZW | |
| | or | |
| | (150-170) LAL V7 SZW | 1030-0300 |
| Tampa (TPA) | LBV BRDGE-STAR | |
| | or | |
| | BRDGE BRDGE-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) LBV DEAKK (RNAV)-STAR | 1000-0300 |
| Vero Beach (VRB) | (at or below 100) PBI V3 | |
| | or | |
| | (110-170) V531 TBIRD | 1030-0300 |
| From STUART (SUA) only: | | |
| Cross City (CTY) | (at or below 120) BAIRN OCF V159 | |
| | or | |
| | (130-170) LAL V7 | 1030-0300 |
| Lakeland (LAL) | TBIRD V531 ODDEL V441 LAL | 1030-0300 |
| Ocala (OCF) | TBIRD V531 BAIRN | 1030-0300 |
| Tallahassee (TLH) | (at or below 120) BAIRN OCF V159 CTY V7 SZW .. | |
| | or | |
| | (130-170) LAL V7 SZW | 1030-0300 |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| SARASOTA/BRADENTON AREA (SRQ) | | |
| Ft Lauderdale (FLL) | (at or below 100, below 210 kts) RSW V599 NEWER | |
| | or | |
| | (110–170), below 210 kts) LBV V157 NEWER | |
| | or | |
| | (at or above 210 kts) V579 RSW V7 KUBIC | |
| | or | |
| | (all others) RSW FORTL–STAR | 1030–0300 |
| | or | |
| | (/E, /G, /R, /J, /L, /Q) RXXAN JINGL (RNAV)–STAR | |
| Ft Myers (RSW) | V579 RSW | 1030–0300 |
| Orlando (MCO) | LAL MINEE–STAR | 1030–0300 |
| West Palm Beach (PBI) | SABEE JOOOE WLACE (RNAV)–STAR | |
| TALLAHASSEE AND CROSS CITY AREA | | |
| Ft Myers (FMY) | (120 and below) CTY V7 LAL V521 | 1100–0300 |
| Miami (MIA) | (170 and below) LAL V157 LBV V529 V35 CURVE | 1300–0300 |
| TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF) | | |
| Ft Lauderdale (FLL) | (Jets only) RSW V7 KUBIC FLL | |
| | or | |
| | (all others) RSW FORTL–STAR | |
| | or | |
| | (Turboprop–all others) RSW FORTL–STAR | 1030–0300 |
| | or | |
| | (props only) V509 HALLR V511 NEWER | 1030–0300 |
| | or | |
| | (GPS or DME/DME–IRU equipped) SABEE RXXAN JINGL (RNAV)–STAR | |
| Ft Myers (RSW) | PIE V579 RSW | |
| | or | |
| | (Turbojets–GPS or DME/DME–IRU equipped) SRQ TYNEE (RNAV)–STAR | |
| Ft Pierce (FPR) | (at or below 140) V441 DEARY V159 | |
| | or | |
| | (150–170) VRB | 1030–0300 |
| Key West (EYW) | PIE V35 RSW V225 | |
| | or | |
| | V579 RSW V225 | 1030–0300 |
| Miami (MIA) | RSW V35 CURVE | 1030–0300 |
| | or | |
| | (all others) CYY CYY–STAR | 1030–0300 |
| | or | |
| | (Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR | |
| Opa Locka (OPF) | (props) V509 HALLR V511 NEWER | |
| | or | |
| | (turbo) RSW V7 KUBIC | |
| | or | |
| | (turbo) V509 HALLR V511 NEWER | 1030–0300 |
| | or | |
| | (jets) RSW CYY CYY–STAR | 1030–0300 |
| | or | |
| | (Turbojets–GPS or DME/DME–IRU equipped) RSW CYY SSCOT (RNAV)–STAR | |
| Orlando (MCO) | LAL MINEE–STAR (Max alt. 12,000 ft) | 1030–0300 |
| Vero Beach (VRB) | (at or below 140) V441 DEARY V159 | |
| | or | |
| | (150–170) VRB | 1030–0300 |
| West Palm Beach (PBI) | RSW PHK | |
| | or | |
| | (Turbojets–GPS or DME/DME–IRU equipped) SABEE JOOOE WLACE (RNAV)–STAR | |

PREFERRED IFR ROUTES

SPECIAL LOW ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA (JETS AND TURBOPROPS)

NORTHEAST

Traffic entering ZTL airspace V97 and East to V66 file:

| | |
|-------|-------------------------|
| ..... | VXV AWSON-STAR..... |
| ..... | SOT ODF AWSON-STAR..... |
| ..... | SUG ODF AWSON-STAR..... |
| ..... | SPA ODF AWSON-STAR..... |
| ..... | ELW ODF AWSON-STAR..... |

SOUTHEAST

Traffic entering ZTL airspace South of V66 to East of a line from ATL to MGR file:

| | |
|-------|---------------------|
| ..... | IRQ TRBOW-STAR..... |
| ..... | DBN TRBOW-STAR..... |
| ..... | MCN TRBOW-STAR..... |

SOUTHWEST

Traffic entering ZTL airspace South of V278 to West of a line from ATL to MGR file:

| | |
|-------|---------------------------------|
| ..... | LDK V66 LGC MIKEE-STAR..... |
| ..... | MEI V56 MGM LGC MIKEE-STAR..... |
| ..... | MVC MGM LGC MIKEE-STAR..... |
| ..... | CEW MGM LGC MIKEE-STAR..... |
| ..... | SZW PZD CSG LGC MIKEE-STAR..... |

NORTHWEST

Traffic entering ZTL airspace on V278 and North to West of V97 file:

| | |
|-------|---|
| ..... | IGB V278 VUZ V417 MAYES V325 DALAS..... |
| ..... | HAB V159 VUZ V417 MAYES V325 DALAS..... |
| ..... | MSL V325 DALAS..... |
| ..... | DCU V541 GAD V325 DALAS..... |
| ..... | RQZ BUNNI-STAR..... |
| ..... | BNA V5 GQO BUNNI-STAR..... |
| ..... | SYI V67 GQO BUNNI-STAR..... |
| ..... | BWG V243 GQO BUNNI-STAR..... |
| ..... | LVT V51 HCH V333 GQO BUNNI-STAR..... |
| ..... | HYK V333 GQO BUNNI-STAR..... |

SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

| | Route | Effective Times (UTC) |
|--|--------------------------------------|-----------------------------|
| Low Altitude IFR routes for traffic overflying the Charlotte Metro Area: | | |
| ..... | PSK V37 CAE (90 and 100 only) | 1100-0300 |
| ..... | SPA V54 LOCAS (90 and 100 only)..... | 1100-0300 |
| ..... | GRD V66 SDZ (30-100 only) | 1100-0300 |

HIGH ALTITUDE

| Terminals | Route | Effective Times (UTC) |
|----------------------------|--|-----------------------------|
| ATLANTA (ATL) | | |
| Austin (AUS) | WEONE J239 MEI AEX LFK..... | 1100-0300 |
| Baltimore (BWI)..... | EAONE SPA J14 RIC OTT-STAR | 1100-0300 |
| Boca Raton (BCT)..... | (GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK PRRIE (RNAV)-STAR | 1100-0300 |
| Boston (BOS)..... | EATWO GRD J209 RDU J207 FKN J79 JFK ORW-STAR..... | 1100-0300 |
| Chicago Midway (MDW) | (/E/G/R/S/L/Q only) NOONE J89 IIU OKK FISSK (RNAV)-STAR..... | 1100-0300 |
| | or (Non-Advanced RNAV only) NOONE J89 IIU OKK V285 CLEFT OXI CGT | 1100-0300 |

| Terminals | Route | Effective Times (UTC) |
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| Chicago O'Hare (ORD) | (non-Advanced RNAV only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR..... | 1100-0300 |
| | or | |
| | (/E/G/R/J/L/Q only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 1100-0300 |
| | or | |
| Cincinnati (CVG) | J89 IIU MZZ OXI | |
| Charlotte (CLT) | NOTWO J43 VXV HARDU-STAR..... | 1100-0300 |
| Cleveland (CLE) | GRD ADENA (RNAV-STAR) | 1100-0300 |
| | SUMMT (RNAV)-DP VXV J91 BULEY J91 HNN TVT KEATN-STAR | |
| Columbus (CMH) | NOTWO J43 VXV J91 HNN BREMN-STAR | 1100-0300 |
| Denver (DEN) | WETWO VUZ J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR | 1100-0300 |
| Detroit/Wayne (DTW) | SUMMT (RNAV)-DP VXV J91 HNN WEEDA-STAR ... | |
| Eglin AFB (KVPS) | NOVSS (RNAV) DP SARGE RRS CEW | |
| Fort Lauderdale (FLL) | SOONE J89 HITR PIE FORTL-STAR | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK JINGL (RNAV)-STAR..... | 1100-0300 |
| Fort Myers (FMY and RSW) | (Turbojets-GPS or DME/DME-IRU equipped) THRSR (RNAV)-DP LUCKK SZW TYNEE (RNAV)-STAR..... | 1100-0300 |
| Gainesville (GNV) | SOONE J89 OTK..... | 1100-0300 |
| Houston (HOU) | (DME/DME-IRU or GPS-equipped) JAMMR AEX ROKIT (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) JAMMR MEI AEX DAS-STAR..... | |
| Houston (IAH) | (Turbojets-DME/DME-IRU or GPS-equipped) JAMMR AEX TXMEX (RNAV)-STAR | |
| Kennedy (JFK) | EATWO GRD J209 ORF J121 SIE CAMRN-STAR | 1100-0300 |
| La Guardia (LGA) | EAONE AHN J208 HPW J191 PXT KORRY-STAR.... | 1100-0300 |
| Louisville (SDF) | NOONE HCH DARBY-STAR..... | 1100-0300 |
| Marco Island (MKY) | SOTWO J43 SZW PIKKR (RNAV)-STAR..... | |
| | or | |
| Miami (MIA) | SOONE J89 J75 TEPEE ZEILR-STAR..... | |
| | (all others) SOTWO SZW J43 PIE CYY-STAR..... | 1100-0300 |
| | or | |
| | (Turbojets-GPS or DME/DME equipped) THRSR (RNAV)-DP LUCKK SZW SSCOT (RNAV)-STAR | 1100-0300 |
| Minneapolis (MSP) | NOONE J89 IIU J89 BAE EAU-STAR | 1100-0300 |
| Naples (APF) | SOTWO J43 SZW PIKKR (RNAV)-STAR..... | |
| Newark (EWR) | GSO J14 J51 FAK DYLIN-STAR..... | 1100-0200 |
| | or | |
| | (GPS or DME/DME-IRU equipped) GSO J14 J51 FAK PHLBO (RNAV)-STAR | 1100-0200 |
| Orlando (MCO) | SOONE J89 OTK LEESE-STAR | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SOONE J89 OTK PIGLT (RNAV)-STAR | 1100-0400 |
| Orlando (ORL) | (GPS or DME/DME-IRU equipped) SOONE J89 OTK PIGLT (RNAV)-STAR | 1100-0400 |
| Panama City-Bay Co Intl (PFN) | NOVSS (RNAV) DP SARGE..... | |
| Pensacola Rgnl (PNS) | NOVSS (RNAV) DP SARGE..... | |
| Philadelphia (PHL) | EAONE SPA J14 J51 FAK DPNT-STAR | 1100-0300 |
| Raleigh-Durham (RDU) | EATWO IRQ CAE BUZZY-STAR | 1100-0300 |
| Sarasota/Bradenton (SRQ) | J43 SZW CLAMP-STAR | 1100-0300 |
| Tampa (TPA) | SOTWO J43 SZW DARBS-STAR | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SOTWO J43 SZW FOXXX (RNAV)-STAR | 1100-0300 |

| Terminals | Route | Effective Times (UTC) |
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| Teterboro (TEB) | (Advanced Nav Only) EAONE SPA J14 J51 FAK JAIKE-STAR | 1100-0300 |
| | or (Non-Advanced Nav Only) EAONE SPA J14 J51 FAK BRV AML J227 J49 J70 LVZ LVZ-STAR | 1100-0300 |
| Washington Natl (DCA) | (GPS or DME/DME-IRU equipped) EAONE SPA J14 RIC OJAAY (RNAV)-STAR | 1100-0300 |
| | or EAONE SPA J14 RIC IRONS-STAR | |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK WLACE (RNAV)-STAR | 1100-0300 |
| Windsor Locks (BDL) | EATWO GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR | 1100-0300 |
| AUGUSTA (AGS) Kennedy (JFK) | GRD J209 ORF J121 SIE CAMRN-STAR | |
| BIRMINGHAM (BHM) Baltimore (BWI) | ATL J14 RIC OTT-STAR | |
| | or (GPS or DME/DME-IRU equipped) ATL J14 RIC RAVNN (RNAV)-STAR | |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) VUZ IIU OKK FISSK (RNAV)-STAR | 1100-0300 |
| | or (non-advanced RNAV only) VUZ IIU OKK V285 CLEFT OXI CGT | 1100-0300 |
| Chicago O'Hare (ORD) | MEM FTZ BDF BDF-STAR | 0000-2359 |
| Detroit/Wayne (DTW) | (RNAV only) BNA IMPEL VHP FWA MIZAR-STAR or BNA CCT VHP FWA MIZAR-STAR | |
| Houston (HOU) | (DME/DME-IRU or GPS-equipped) MEI AEX ROKIT (RNAV)-STAR | |
| Houston (IAH) | (Non-advanced NAV only) MEI AEX DAS-STAR (Turbojets-DME/DME-IRU or GPS-equipped) MEI AEX TXMEX (RNAV)-STAR | |
| | or (Non-advanced NAV only) MEI AEX DAS-STAR ATL J14 J51 FAK COATT-STAR | |
| Washington Dulles (IAD) | ATL J14 RIC IRONS-STAR | |
| Washington Natl (DCA) | or (GPS or DME/DME-IRU equipped) ATL J014 RIC OJAAY (RNAV)-STAR | |
| CHARLESTON (CHS) Baltimore (BWI) | J79 TYI J40 RIC OTT-STAR | 1100-0400 |
| | or (GPS or DME/DME-IRU equipped) J79 TYI J40 RIC RAVNN (RNAV)-STAR | 1100-0400 |
| Detroit/Wayne (DTW) | BKW GEMNI-STAR | |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) MGM J37 SJI COLUMBIA (RNAV)-STAR | |
| | or (Non-advanced NAV only) MGM J37 SJI AEX DAS-STAR | |
| Houston (IAH) | (DME/DME-IRU or GPS-equipped) MGM J37 SJI WOLDE (RNAV)-STAR | |
| | or (Non-advanced NAV only) MGM J37 SJI AEX DAS-STAR | |
| Philadelphia (PHL) | J121 SWL SWL034 RADDS VCN-STAR | 1100-0400 |
| Washington Dulles (IAD) | J55 FLO J207 RDU FAK COATT-STAR | |
| | or (GPS or DME/DME-IRU equipped) J55 FLO J207 RDU FAK BARIN-STAR | |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|---|-----------------------|
| CHARLOTTE (CLT) | | |
| Baltimore (BWI) | MERIL RDU J52 RIC OTT-STAR..... | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) MERIL RDU J52 RIC RAVNN (RNAV)-STAR | 1100-0300 |
| Boston (BOS) | MERIL RDU J207 FKN J79 JFK ORW-STAR..... | |
| Chicago Midway (MDW) | SADIE HNN FWA GOSHEN-STAR | 1100-0300 |
| | or | |
| Chicago O'Hare (ORD) | SADIE HVQ APE J178 FWA GOSHEN-STAR | 1100-0300 |
| | (/E/G/R/J/L/Q only) SADIE FLM HEVAN MZZ ROYKO (RNAV)-STAR | 1100-0300 |
| | or | |
| | (non-advanced RNAV only) SADIE FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 1100-0300 |
| Cincinnati (CVG) | (RNAV only) HMV JAKIE (RNAV)-STAR | |
| | or | |
| | (all others) HMV HARDU-STAR | |
| Denver (DEN) | HARAY SPA SPA270 VVX125 VVX BNA FAM J112 BUM J110 GCK J154 RYLIE DANDD-STAR | 1100-0300 |
| Detroit/Wayne (DTW) | HUGO-DP ROBAY BKW GEMNI-STAR | |
| Houston (HOU) | (DME/DME-IRU or GPS-equipped) AHN MGM J37 SJI WOLDE (RNAV)-STAR | |
| | or | |
| | (DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX ROKIT (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR | |
| | or | |
| | (DME/DME-IRU or GPS equipped) AHN MGM J37 SJI Columbia (RNAV)-STAR | |
| Houston (IAH) | (Turbojets-DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX TXMEX (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR | |
| Kennedy (JFK) | MERIL RDU J209 ORF J121 SIE CAMRN-STAR | |
| La Guardia (LGA) | MERIL RDU J55 HPW J191 PXT KORRY-STAR | 1100-0300 |
| Louisville (LOU) | SADIE LOZ V310 IIU | 1100-0300 |
| Newark (EWR) | RDU FAK DYLIN-STAR | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR | 1100-0300 |
| Norfolk (ORF) | MERIL RDU TYI CVI V1 DRONE | 1100-0300 |
| Philadelphia (PHL) | MERIL RDU248 J51 FAK DPNT-STAR | 1100-0400 |
| Richmond (RIC) | MERIL RDU LVL | |
| Teterboro (TEB) | (Advanced Nav Only) MERIL RDU FAK JAIKE-STAR | 1100-0300 |
| | or | |
| | (Non-Advanced Nav Only) MERIL RDU FAK BRV AML J227 J49 J70 LVZ LVZ-STAR | 1100-0300 |
| Washington Dulles (IAD) | MERIL RDU248 J51 FAK COATT-STAR | 1100-0300 |
| Washington Natl (DCA) | MERIL RDU J52 RIC IRONS-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) MERIL RDU J52 OJAAY (RNAV)-STAR | |
| Windsor Locks (BDL) | MERIL RDU J207 FKN J79 JFK DPK DPK-STAR..... | |
| CHATTANOOGA (CHA) | | |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 0000-2359 |
| | or | |
| | (non-advanced RNAV only) GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 0000-2359 |
| CINCINNATI (CVG) | | |
| Albany (ALB) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB..... | |

| Terminals | Route | Effective Times (UTC) |
|------------------------------|---|-----------------------|
| Allentown (ABE) | (RNAV only) ROCKT (RNAV)—DP ROCKT CADRE AHTIY JST HAR | |
| Atlanta (ATL) | (RNAV only) BLUEGRASS—DP BWG ERLIN (RNAV)—STAR | |
| | or | |
| Baltimore (BWI) | (all others) BLUEGRASS—DP BWG ROME—STAR..... V128 YRK HVQ J8 CSN OTT—STAR | |
| | or | |
| | (GPS or DME/DME—IRU equipped) V128 YRK HVQ J8 CSN RAVNN (RNAV)—STAR | |
| Birmingham (BHM) | BLUEGRASS—DP TRFWA LVT SYI VUZ | |
| Boca Raton (BCT) | (GPS or DME/DME—IRU equipped) BLUEGRASS—DP TRFWA NOTWO WALET HITTR LATHY PRRIE (RNAV)—STAR | |
| | or | |
| | (GPS or DME/DME—IRU equipped) BLUEGRASS—DP HYK VXV J43 ATL J89 OTK PRRIE (RNAV)—STAR. | |
| Boston (BOS) | (RNAV only) ROCKT (RNAV)—DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER—STAR | |
| Chicago O'Hare (ORD) | (Advanced NAV only) JBNCH (RNAV)—DP MIE MZZR ROYKO (RNAV)—STAR | |
| | or | |
| | (Non—Advance Nav only) HAGOL (RNAV)—DP DQN FWA KNOX—STAR | |
| | or | |
| | HAGOL (RNAV)—DP DQN FWA WATSN (RNAV)—STAR | |
| Dallas/Ft. Worth (DFW) | IIU PXV J131 LIT BYP | |
| Fort Lauderdale (FLL) | (GPS or DME/DME—IRU equipped) SILK (RNAV)—DP TRFWA NOTWO OTK JINGL (RNAV)—STAR | |
| | or | |
| | (all others) BLUEGRASS—DP HYK VXV J43 ATL J89 HITTR J75 FORTL—STAR | |
| Fort Myers (FMY) | (Turbojets, DME/DME—IRU or GPS) KENLN (RNAV)—DP HYK VXV J43 SZW TYNEE (RNAV)—STAR | |
| | or | |
| | (all others) BLUEGRASS—DP HKY VXV J43 SZW PIE JOSFF—STAR | |
| Fort Myers (RSW) | (GPS or DME/DME—IRU equipped) KENLN (RNAV)—DP HYK VXV J43 SZW TYNEE (RNAV)—STAR | 1100–0300 |
| | or | |
| | (all others) BLUEGRASS—DP HYK VXV J43 SZW PIE JOSFF—STAR | |
| Harrisburg (MDT) | (RNAV only) ROCKT (RNAV)—DP AHTIY JST HAR | |
| Houston (HOU) | (GPS or DME/DME—IRU equipped) CHCLL (RNAV)—DP BWG J6 LIT J180 SWB ROKIT (RNAV)—STAR | |
| | or | |
| | (Non—advanced NAV only) BLUEGRASS—DP BWG J6 LIT J180 SWB DAS—STAR | |
| Houston (IAH) | (Turbojets—GPS or DME/DME—IRU equipped) LIT CHCLL (RNAV)—DP BWG J6 LIT J180 SWB TXMEX (RNAV)—STAR | |
| | or | |
| | (all others) LIT J180 SWB BLUEGRASS—DP BWG J6 DAS—STAR | |
| Jackson (JAN) | (all others) BLUEGRASS—DP TRFWA LVT SYI VUZ JAN | |
| | or | |
| | (RNAV only) SILKS (RNAV)—DP TRFWA LVT SYI VUZ JAN | |
| La Guardia (LGA) | (RNAV only) ROCKT (RNAV)—DP AHTIY PSB MILTON—STAR | 1000–1800 |

| Terminals | Route | Effective Times (UTC) |
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| Manchester (MHT)..... | (RNAV only) ROCKT (RNAV)–DP AHTIY PSB ALB EEN | |
| Marco Island (MKY) | (all others) BLUEGRASS–DP HYK VXV J43 SZW PIKKR (RNAV)–STAR | |
| | or (RNAV only) KENLN (RNAV)–DP HYK VXV J43 SZW PIKKR (RNAV)–STAR | |
| Miami (MIA) | (Turbojets–GPS or DME/DME–IRU equipped) SILKS (RNAV)–DP TRFWA NOTWO SZW SSCOT (RNAV)–STAR | |
| | or (all others) BLUEGRASS–DP HYK VXV J43 ATL SZW J43 PIE CYY–STAR | |
| Mobile (MOB) | (all others) BLUEGRASS–DP TRFWA LVT SYI VUZ SJI | |
| | or (RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ SJI | |
| Naples (APF)..... | HYK VXV J43 SZW PIKKR (RNAV)–STAR | |
| Newark (EWR) | ROD J29 J584 SLT FQM–STAR | |
| Newburgh (SWF)..... | (RNAV only) ROCKT (RNAV)–DP ROCKT CADRE AHTIY PSB J49 HNK DNY V483 FILPS | |
| New Orleans (MSY) | (all others) BLUEGRASS–DP TRFWA LVT SYI VUZ J22 MEI RYTHM–STAR | |
| | or (RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ J22 MEI RHYTHM–STAR | |
| Orlando Executive (ORL) | (all others) BLUEGRASS–DP HYK VXV J99 IRQ J85 AMG LEESE–STAR | 1100–0300 |
| | or (GPS or DME/DME–IRU equipped) HYK VXV J99 IRQ J85 AMG SHEMA MTATA PIGLT | |
| | (RNAV)–STAR | 1100–0400 |
| Orlando Intl (MCO) | (all others) BLUEGRASS–DP HYK VXV J99 IRQ J85 AMG LEESE–STAR | 1100–0300 |
| | or (GPS or DME/DME–IRU equipped) KENLN (RNAV)–DP HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)–STAR | 1100–0400 |
| Philadelphia (PHL) | (RNAV only) ROCKT (RNAV)–DP AHTIY JST BUNTS–STAR | |
| Phoenix (PHX) | BLUEGRASS–DP IIU PXV J78C IRW J74C CNX ZUN BUNTR | |
| | or BLUEGRASS–DP IIU PXV J78C ZUN BUNTR | |
| | or CHCLL–DP IIU PXV J78C ZUN EAGUL | |
| | or CHCLL–DP IIU PXV J78C IRW J74C CNX ZUN EAGUL | |
| Portland (PWM)..... | (RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 ALB ENE | |
| Providence (PVD) | (RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 HNK TEDDY–STAR | |
| Sarasota/Bradenton (SRQ)..... | (all others) BLUEGRASS–DP HYK VXV J43 SZW CLAMP–STAR | |
| | or (RNAV only) KENLN (RNAV)–DP HYK VXV J43 SZW CLAMP–STAR | |
| Tampa (TPA) | HYK VXV J43 SZW DARBS–STAR | |
| | or (GPS or DME/DME–IRU equipped) KENLN (RNAV)–DP HYK VXV J43 SZW FOXXX (RNAV)–STAR | |

| Terminals | Route | Effective Times (UTC) |
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| Washington Dulles (IAD)..... | (all others) RHOMM-DP HVQ ROYL-STAR | |
| | or | |
| | (RNAV only) GIPLE (RNAV)-DP HVQ SHANON | |
| | (RNAV)-STAR | |
| Washington Natl (DCA)..... | V128 YRK HVQ WZRRD-STAR | |
| | or | |
| | V128 YRK HVQ ELDEE (RNAV)-STAR | |
| West Palm Beach (PBI) | (GPS or DME/DME-IRU equipped) SILKS | |
| | RNAV-DP TRFWA NOTWO OTK WLACE | |
| | (RNAV-STAR) | |
| | or | |
| | (GPS or DME/DME-IRU equipped) KENLN | |
| | (RNAV)-DP HYK VXV J43 ATL J89 OTK WLACE | |
| | (RNAV-STAR) | |
| Wilkes Barre/Scranton (AVP) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE | |
| | ANTIY PSB LVZ | |
| Windsor Locks (BDL) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE | |
| | AHTIY PSB RKA SWEDE SWEDE-STAR | |
| DAYTONA BEACH (DAB) | | |
| Charlotte (CLT)..... | CRG J51 SAV J207 FLO CTF-STAR | |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) CRG | |
| | J51 SAV HUSTN (RNAV)-STAR | |
| FORT LAUDERDALE METRO AREA | | |
| (FLL, FXE, PMP) | | |
| Albany (ALB) | (Water-Turbojets) ZAPPA PERMT AR16 ILM | |
| | KEMPR SBY J79 JOANI LGA LGA055 TRUDE | |
| | V487 CANAN V130 | |
| Atlanta (ATL) | J20 ORL J81 CHESN SINCA-STAR | 1000-0300 |
| | or | |
| | (RNAV only) J20 ORL J81 CHESN CANUK (RNAV) | |
| | -STAR | 1000-0300 |
| Baltimore (BWI) | (at or below 310) J20 ORL J53 CRG J51 SAV J55 | |
| | CHS J165 RIC OTT-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets) ZAPPA PERMT AR16 ILM J40 | |
| | RIC OTT-STAR | 1000-0300 |
| | or | |
| | (at or above 330) J113 CRG J51 SAV J55 CHS | |
| | J165 RIC OTT-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) (at or below | |
| | 310) J20 ORL J53 CRG J51 SAV J55 CHS J165 | |
| | RIC RAVNN (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) (at or above | |
| | 330) J113 CRG J151 SAV J55 CHS J165 RIC | |
| | RAVNN (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets-GPS or DME/DME-IRU | |
| | equipped) ZAPPA PERMT AR16 ILM J40 RIC | |
| | RAVNN (RNAV)-STAR | 1000-0300 |
| Bedford (BED)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM | |
| | KEMPR SBY J79 JFK DPK MAD HFD | |
| | GRAYM-STAR | |
| | or | |
| | (Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 | |
| | DIW WETRO CEBEE SWL J174 HTO ORW | |
| | GRAYM-STAR | |
| Beverly (BVY)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM | |
| | KEMPR SBY J79 JFK DPK MAD HFD | |
| | GRAYM-STAR | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|--|-----------------------|
| | (Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Boston (BOS) | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ORW-STAR | 1000-0300 |
| | or (at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J55 CHS J79 JFK ORW-STAR | 1000-0300 |
| Bridgeport (BDR) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| Charlotte (CLT) | (at or below 290) J20 ORL J53 CRG J51 SAV J207 FLO CTF-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J207 FLO CTF-STAR | 1000-0300 |
| | or (at or above 330-Turbojets-GPS or DME/DME-IRU equipped) J113 CRG J51 SAV HUSTN (RNAV)-STAR | 1000-0300 |
| | or (at or below 290-Turbojets-GPS or DME/DME-IRU equipped) J20 ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR | 1000-0300 |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR | 1000-0300 |
| | or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | 1000-0300 |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 1000-0300 |
| | or (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 1000-0300 |
| | (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR | |
| Cincinnati (CVG) | (all others) CTY J91 VXV HARDU-STAR | 1000-0300 |
| | or (RNAV) only) CTY J91 VXV JAKIE (RNAV)-STAR | |
| Cleveland (CLE) | J20 ORL J53 IRQ J85 HVQ J85 TVT040 KEATN KEATN-STAR | 1000-0300 |
| Columbus (CMH) | J20 ORL J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR | 1000-0300 |
| Cross City (CTY) | J85 LLAKE CTY | 1030-0300 |
| | or CTY | |
| Dallas/Fort Worth (DFW) | LAL J73 SZW J2 CEW J50 AEX CQY | 1000-0300 |
| | or SRQ Q100 REDFN Q105 HRV J58 AEX CQY | 1000-0300 |
| Danbury (DXR) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR | |
| Daytona Beach (DAB) | J20 LLNCH MLB V3 | 1030-0300 |
| Denver (DEN) | LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR | 1030-0300 |
| | or SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR | 1030-0300 |
| Detroit/Wayne (DTW) | J20 ORL J53 SPA HNN WEEDA-STAR | |
| Detroit Satellites: | | |
| Ann Arbor (ARB) | J20 ORL J81 IRQ J99 VXV J43 FLM DQN CRUX-STAR | |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------------|--|-----------------------|
| Pontiac (PTK), Windsor (CYQG) | J20 ORL J81 IRQ J85 DJB LLEEO-STAR | |
| Willow Run (YIP) | J20 ORL J81 IRQ J99 VXV J43 FLM DQN CRUX-STAR | 1000-0300 |
| Young (DET) | J20 ORL J81 IRQ J85 DJB LLEEO-STAR | 1000-0300 |
| East Hampton (HTO) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 | |
| Farmingdale (FRG) | (Water) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| Gainesville (GNV) | J85 LLAKE LAL GNV or LAL GNV | 1030-0300 |
| Groton/New London (GON) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO | |
| Hartford (HFD) | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 | |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) LAL J73 SZW J2 CEW-030 J50 AEX DAS-STAR | 1000-0300 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR | |
| Indianapolis (IND) | CTY J91 ATL J89 IJU DECEE-STAR | 1000-0300 |
| Islip (ISP) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC | |
| Jacksonville (CRG) | J20 ORL J53 | 1030-0300 |
| Kennedy (JFK) | (Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 SIE CAMRN-STAR | 1000-0300 |
| | or (at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR | 1000-0300 |
| La Guardia (LGA) | (Water-Turbojets) ZAPPA PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR | 1000-0300 |
| | or (at or below 290) J20 ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR | 1000-0300 |
| | or (at or above 330) J113 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR | 1000-0300 |
| Lawrence (LWM) | (Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| | or (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| Louisville (SDF) | CTY J91 ATL HCH DARBY-STAR | 1000-0300 |
| Manchester (MHT) | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN | |
| Melbourne (MLB) | J20 LLNCH MLB | 1030-0300 |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU-STAR | 1000-0300 |
| Montreal (CYUL) | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR | |
| Nantucket (ACK) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46 | |

| Terminals | Route | Effective Times (UTC) |
|---|--|-----------------------|
| Nashville (BNA)..... | CTY J91 ATL GQO VOLLS-STAR..... | 1000-0300 |
| Newark (EWR)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM J109 FAK DYLIN-STAR..... | 1000-0300 |
| | or | |
| | (at or below 310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR | 1000-0300 |
| | or | |
| | (at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR..... | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped-at or below 310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR | 1000-0300 |
| Newburgh (SWF)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| New Haven (HVN)..... | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| New Orleans (MSY) | SRQ Q100 REDFN Q105 HRV..... | 1000-0300 |
| | or | |
| Ocala (OCF)..... | LAL J73 SZW J2 | 1000-0300 |
| | J85 LLAKE LAL | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Orlando (MCO) | J20 LLNCH GOOFY-STAR | 1030-0300 |
| Overwater Routes to the Northeast..... | (Water-Turbojets) ZAPPA WOLFO AR18 DIW | 1030-0300 |
| Overwater Routes to the Northwest | LBV J616 | 1030-0300 |
| | or | |
| | LBV J616 SRQ Q100 REDFN Q105 HRV J58 | 1030-0300 |
| Philadelphia (PHL)..... | J20 ORL J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs CEDAR LAKE-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL RADDs CEDAR LAKE-STAR | 1000-0300 |
| Pittsburgh (PIT)..... | (at or below 290) J20 ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR | 1000-0300 |
| | or | |
| | (at or above 330) J113 CRG J51 CAE PSK EKN IHD NESTO-STAR | 1000-0300 |
| Poughkeepsie (POU)..... | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| Providence (PVD) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR..... | |
| Raleigh-Durham (RDU) | (at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR | 1000-0300 |
| | or | |
| | (at or above 330) J113 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets) ZAPPA PERMT AR16 ILM BRADE-STAR..... | 1000-0300 |
| St Louis (STL)..... | THNDR CTY J151 VISQA QBALL-STAR | |
| | or | |
| | (/E, /G, /R, /J, /L, /Q) THNDR KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR | |
| Sarasota/Bradenton (SRQ) | LBV J43 ROGAN | 1030-0300 |
| | or | |
| | ROGAN | 1030-0300 |

| Terminals | Route | Effective Times (UTC) |
|----------------------------------|--|-----------------------|
| Springfield/Chicopee (CEF) | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR .. | |
| Tallahassee (TLH) | J85 LLAKE LAL SZW | 1030-0300 |
| | or | |
| | LAL | 1030-0300 |
| Tampa (TPA) | J85 THNDR LBV BRDGE-STAR | 1030-0300 |
| | or | |
| | BRDGE BRDGE-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J85 THNDR LBV DEAKK (RNAV)-STAR | 1030-0300 |
| Toronto (CYYZ) | (Water-Turbojets) ZAPPA PERMT AR16 ILM J109 BUF YOUTH-STAR | |
| Vero Beach (VRB) | J20 ARKES VRB | 1030-0300 |
| Washington Dulles (IAD) | (at or below 310) J20 ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR | 1000-0300 |
| | or | |
| | (at or below 310-GPS or DME/DME-IRU equipped) J20 ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR | 1000-0300 |
| | (at or above 330-GPS or DME/DME-IRU equipped) J113 CRG J51 SAV J207 RDU FAK BARIN-STAR | 1000-0300 |
| | or | |
| | (at or above 330) J113 CRG J51 SAV J207 RDU FAK COATT-STAR | 1000-0300 |
| | or | |
| | (Water) ZAPPA PERMT AR16 ILM J109 FAK COATT-STAR | 1000-0300 |
| | or | |
| | (Water-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK BARIN-STAR | 1000-0300 |
| Washington Natl (DCA) | (at or below 310) J20 ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR | 1000-0300 |
| | or | |
| | (at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets) ZAPPA PERMT AR16 ILM J40 RIC IRONS-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped-at or below 310) J20 ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR | 1000-0300 |
| Westfield (BAF) | (Water-Turbojets) ZAPPA PERMIT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR .. | |
| Westhampton Beach (FOK) | (Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 HTO | |
| White Plains (HPN) | (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR | |
| | or | |
| | (Water-Turboprops) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR | |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| Wilmington (ILM) | (Water-Turbojets-Overwater Routes to the NE) ZAPPA PERMT AR16 | |
| Windsor Locks (BDL) | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR .. | |
| Worcester (ORH) | (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD | |
| FORT MYERS METRO AREA | | |
| (RSW, FMY, APF, MKY, PGD) | | |
| Daytona Beach (DAB) | ORL | 1030-0300 |
| Gainesville (GNV) | LAL | 1030-0300 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR | |
| | or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR | |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR | 1000-0300 |
| Jacksonville (CRG) | ORL J53 | 1030-0300 |
| Miami (MIA) | (all others) CY Y CY Y-STAR | 1030-0300 |
| | or (/E, /G, /R, /J, /L, /Q) CY Y DEEDS (RNAV)-STAR | 1030-0300 |
| Ocala (OCF) | LAL | 1030-0300 |
| Orlando (MCO) | LAL MINEE-STAR | 1030-0300 |
| | or DOWNN MINEE-STAR | 1030-0300 |
| | or LAL | 1030-0300 |
| | or (Turbojets) ORL | 1030-0300 |
| | or (Turbojets) DOWNN MINEE-STAR | 1030-0300 |
| Tallahassee (TLH) | LAL | 1030-0300 |
| Tampa (TPA) | RSW BRDGE-STAR | 1030-0300 |
| | or V7 ROGAN J43 PIE | 1030-0300 |
| | or (GPS or DME/DME-IRU equipped) DEAKK (RNAV)-STAR | 1030-0300 |
| Westbound destinations | SRQ Q100 LEV J86 | |
| | or BAGGS Q102 LEV J86 | |
| | or SRQ 100 REDFN Q105 HRV J58 | |
| From PAGE FLD (FMY) only: | | |
| Cincinnati (CVG) | (RNAV only) LAL CTY J91 VXV JAKIE (RNAV)-STAR or (all others) LAL CTY J91 ATL VXV HARDU-STAR ... | |
| Cleveland Metro (CLE) | LAL CTY J91 HNN TVT KEATN-STAR | |
| Columbus (CMH) | LAL CTY J91 HNN BREMN-STAR | |
| Detroit/Wayne (DTW) | LAL CTY J91 YXV J43 FLM DQN MIZAR-STAR | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), Willow Run (YIP) | LAL CTY J91 VXV J43 FLM DQN CRUX-STAR | |
| Pontiac (PTK), Windsor (CYQG), Young (DET) | LAL J73 J119 TAY J85 DJB LLEE0-STAR | |
| La Guardia (LGA) | ORL J53 CRG J51 SAV J207 J55 HPW J191 PXT KORRY-STAR | 1100-0300 |

| Terminals | Route | Effective Times (UTC) |
|--|--|-----------------------|
| Miami (MIA)..... | (Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR | |
| Newark (EWR) | ORL J53 CRG J51 FAK DYLIN-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 FAK PHLBO(RNAV)-STAR | 1100-0400 |
| Washington Natl (DCA)..... | ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR | 1000-0300 |
| From SW FLORIDA INTL (RSW) only: | | |
| Atlanta (ATL) | RSW LAL J73 SZW LGC-STAR | 1000-0300 |
| | or | |
| | (RNAV only) RSW LAL J73 SZW HONIE (RNAV)-STAR | 1000-0300 |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) RSW LAL CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR | 1000-0300 |
| | or | |
| | (non-advanced RNAV only) RSW LAL CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | 1000-0300 |
| Chicago O'Hare (ORD)..... | (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 1000-0300 |
| | or | |
| | (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 KNOX-STAR | 1000-0300 |
| Cleveland (CLE)..... | RSW LAL J73 J119 TAY J85 IRQ J85 HVQ J85 TVT040 KEATN KEATN-STAR | |
| Columbus (CMH) | RSW LAL J73 J119 TAY J85 HVQ HNN BREMN-STAR | 1000-0300 |
| Dallas/Ft. Worth (DFW) | RSW SRQ Q100 REDFN Q105 HRV J58 AEX CQY .. | |
| | or | |
| | RSW LAL J73 SZW J2 CEW J50 AEX CQY | 1000-0300 |
| Denver (DEN) | RSW SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR | |
| | or | |
| | RSW LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR | |
| Detroit/Wayne (DTW) | JOCKS ORL J53 SPA HNN WEEDA-STAR | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), Willow Run (YIP) | LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR | |
| Pontiac (PTK), Windsor (CYQG), Young (DET) | LAL J73 J119 TAY J85 DJB LLEE0-STAR | |
| Indianapolis (IND) | RSW LAL CTY J91 ATL J89 IIU DECEE-STAR | |
| Louisville (SDF) | RSW LAL CTY J91 ATL HCH DARBY-STAR | |
| Miami (MIA)..... | (Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR | |
| Minneapolis (MSP) | RSW LAL CTY J91 ATL J89 BAE EAU-STAR | 1000-0300 |
| Nashville (BNA) | RSW LAL CTY J91 ATL GQO VOLLS-STAR | |
| Pittsburgh (PIT) | RSW ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR | 1000-0300 |
| Raleigh-Durham (RDU)..... | RSW ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR | |
| St Louis (STL) | LAL J73 SZW J41 VUZ STL | 1100-0300 |
| Washington Dulles (IAD)..... | RSW ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) RSW ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR | 1000-0300 |
| Washington Natl (DCA) | RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR | 1000-0300 |

| Terminals | Route | Effective Times (UTC) |
|--------------------------------------|--|-----------------------|
| GREENSBORO (GSO) | | |
| Chicago Midway (MDW) | PSK HNN FWA GOSHEN-STAR | 1100-0300 |
| | or | |
| Chicago O'Hare (ORD) | PSK HVQ APE J178 FWA GOSHEN-STAR | 1100-0300 |
| | (/E/G/R/J/L/Q only) BOTTM FLM HEVAN MZZ | |
| | ROYKO (RNAV)-STAR | 1100-0300 |
| | or | |
| | (non-advanced RNAV only) BOTTM FLM HEVAN | |
| | MZZ MZZ344/33 OXI KNOX-STAR | 1100-0300 |
| Cincinnati (LUK) | PSK HVQ FLM | 0700-2300 |
| Detroit/Wayne (DTW) | BOTTM BKW GEMNI-STAR | |
| La Guardia (LGA) | J14 PXT KORRY-STAR | |
| Louisville (SDF) | VXV J99 GHATS EWO IIIU | 0700-2300 |
| Newark (EWR) | J14 J51 FAK DYLIN-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J14 J51 FAK | |
| | PHLBO (RNAV)-STAR | |
| GREER (GSP) | | |
| Detroit/Wayne (DTW) | SPA HMV HNN WEEDA-STAR | |
| HUNTSVILLE (HSV) | | |
| Chicago O'Hare (ORD) | MEM FTZ BDF BDF-STAR | 0000-2359 |
| Detroit/Wayne (DTW) | (RNAV only) BNA IMPEL VHP FWA MIZAR-STAR | |
| | or | |
| | BNA CCT VHP FWA MIZAR-STAR | |
| JACKSONVILLE METRO AREA (JAX) | | |
| Baltimore (BWI) | J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J51 SAV J55 | |
| | CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR | 1100-0400 |
| Charlotte (CLT) | J53 IRQ UNARM-STAR | |
| | or | |
| | J51 SAV J207 FLO CTF-STAR | |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) J51 | |
| | SAV HUSTN (RNAV)-STAR | |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) J53 | |
| | IRQ ADENA (RNAV)-STAR | |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) SAV CAE HMV FLM HEVAN | |
| | MZZ ROYKO (RNAV)-STAR | 0000-2359 |
| | or | |
| | (non-advanced RNAV only) SAV CAE HMV FLM | |
| | HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 0000-2359 |
| Detroit/Wayne (DTW) | NOWAY J53 SPA HNN WEEDA-STAR | |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) TAY J2 SJI | |
| | COLUMBIA (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) TAY J2 CEW J50 AEX | |
| | DAS-STAR | |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) TAY J2 SJI | |
| | WOLDE (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) TAY J2 CEW J50 AEX | |
| | DAS-STAR | |
| La Guardia (LGA) | J51 SAV J207 RDU J55 HPW J191 PXT | |
| | KORRY-STAR | 1100-0400 |
| Newark (EWR) | CRG J51 FAK DYLIN-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) CRG J51 FAK | |
| | PHLBO (RNAV)-STAR | |
| Philadelphia (PHL) | J51 SAV J55 CHS J121 SWL SWL034 RADD | |
| | VCN-STAR | 1100-0400 |

| Terminals | Route | Effective Times (UTC) |
|--|---|-----------------------|
| Tampa (TPA) | TAY LZARD-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY DADES | |
| | (RNAV)-STAR | |
| Washington Dulles (IAD) | SAV CHS J165 J109 FAK COATT-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SAV J207 RDU | |
| | FAK BARIN-STAR | 1100-0400 |
| Washington Natl (DCA) | J51 SAV J55 CHS J165 RIC IRONS-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J51 SAV J55 | |
| | CHS J165 RIC OJAAY (RNAV)-STAR | 1100-0400 |
| KEY WEST METRO AREA (NQX) | | |
| Daytona Beach (DAB) | RSW ORL | 1030-0300 |
| Fort Lauderdale (FLL) | (all others) EYW DVALL-STAR | 1030-0300 |
| | or | |
| | (/E, /G, /R, /J, /L, /Q) EYW CORSO | |
| | (RNAV)-STAR | 1030-0300 |
| Fort Myers (RSW) | | 1030-0300 |
| Melbourne (MLB) | PHK | 1030-0300 |
| Miami (MIA) | (all others) EYW DVALL-STAR | 1030-0300 |
| | or | |
| | (/E, G, /R, /J, /L, /Q) EYW CORSO (RNAV)-STAR | 1030-0300 |
| Orlando (MCO) | RSW MINEE-STAR | 1030-0300 |
| Palm Beach (PBI) | PHK | 1030-0300 |
| Sarasota/Bradenton (SRQ) | RSW V7 ROGAN | 1030-0300 |
| Tallahassee (TLH) | RSW LAL | 1030-0300 |
| | or | |
| | (at or above FL360) RSW TEPEE | 1030-0300 |
| Tampa (TPA) | RSW BRDGE-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) RSW DEAKK | |
| | (RNAV)-STAR | 1000-0300 |
| Vero Beach (VRB) | PHK | 1030-0300 |
| KNOXVILLE (TYS) | | |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) VXV HEVAN MZZ ROYKO | |
| | (RNAV)-STAR | 0000-2359 |
| | or | |
| | (non-advanced RNAV only) VXV HEVAN MZZ | |
| | MZZ344/33 OXI KNOX-STAR | 0000-2359 |
| Cleveland Metro (CLE) | VXV J91 BULEY J91 HNN TVT KEATN-STAR | |
| Detroit/Wayne (DTW) | VXV J91 HNN WEEDA-STAR | |
| La Guardia (LGA) | BKW J42 GVE KORRY-STAR | |
| LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16) | | |
| Fort Lauderdale (FLL) | (Jets only-all others) RSW FORTL-STAR | |
| Key West Intl (EYW) | RSW J41 | 1030-0300 |
| Miami (MIA) | (Turbojets-GPS or DME/DME-IRU equipped) CY | |
| | SSCOT (RNAV)-STAR | |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) | |
| | WLACE (RANV)-STAR | 1030-0300 |
| LEXINGTON (LEX) | | |
| Atlanta (ATL) | (RNAV only) AZQ SOT FLCON (RNAV)-STAR | |
| Cleveland (CLE) | CVG ABERZ-STAR | |
| LOUISVILLE METRO AREA (LOU, SDF) | | |
| From BOWMAN FIELD (LOU) only | | |
| Dallas/Ft Worth (DFW) | PXV J131 LIT BYP | |
| Phoenix (PHX) | FAM J78 ABQ J18 | |
| | or | |
| | FAM J78 IRW J74 SJN J18 | |

| Terminals | Route | Effective Times (UTC) |
|---------------------------------|---|-----------------------|
| From LOUISVILLE INTL (SDF) only | | |
| Atlanta (ATL)..... | MYS BWG ROME-STAR | |
| | or | |
| | (RNAV only) MYS BWG RMG ERLIN (RNAV)-STAR | |
| Cleveland Metro (CLE) | CVG ZABER-STAR | |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) SWB ROKIT | |
| | (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SWB DAS-STAR | |
| Houston (IAH) | (Turbojets-GPS or DME/DME-IRU equipped) SWB | |
| | TXMEX (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SWB DAS-STAR | |
| MEMPHIS (MEM) | | |
| Baltimore (BWI)..... | J42 BKW J147 CSN OTT-STAR..... | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J42 BKW J147 | |
| | CSN RAVNN (RNAV)-STAR | |
| Boca Raton (BCT)..... | (GPS or DME/DME-IRU equipped) MGM SZW | |
| | PRRIE (RNAV)-STAR | |
| Boston (BOS)..... | J42 BNA J46 VXV SPA SPA100 J209 RDU J207 | |
| | FKN J79 JFK ORW-STAR | |
| | or | |
| | J118 SPA SPA100 J209 RDU J207 FKN J79 JFK | |
| | ORW-STAR | |
| Cincinnati (CVG)..... | (RNAV only) J29 PXV SARGO (RNAV)-STAR | |
| | or | |
| | (all others) J29 PXV MOSEY-STAR | |
| Cleveland (CLE)..... | PXV ZABER-STAR | |
| Denver (DEN) | RZC PER GCK J154 RYLIE DANDD-STAR | |
| Detroit/Wayne (DTW) | J29 PXV VHP FWA MIZAR-STAR | |
| Houston (HOU)..... | (DME/DME-IRU or GPS-equipped) LIT J180 SWB | |
| | ROKIT (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) LIT J180 SWB | |
| | DAS-STAR | |
| Houston (IAH) | (Turbojets-DME/DME-IRU or GPS-equipped) LIT | |
| | J180 SWB TXMEX (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) LIT J180 SWB | |
| | DAS-STAR | |
| Kennedy (JFK) | J118 SPA SPA100 J209 ORF J121 SIE | |
| | CAMRN-STAR | |
| La Guardia (LGA) | J42 GVE KORRY-STAR | |
| Louisville (SDF) | BNA BNA037 BARRY EWO | |
| | or | |
| | Q29 SIDAE CHERI CHERI-STAR | |
| Minneapolis (MSP) | J35 STL IOW ALO KASPR-STAR | 1300-0300 |
| Newark (EWR) | J42 GVE DYLIN-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J42 GVE | |
| | PHLBO (RNAV)-STAR | |
| Orlando (ORL/MCO) | MGM SZW J43 PIE LAL | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) MGM SZW J43 | |
| | PIE COSTR (RNAV)-STAR | 1100-0400 |
| | or | |
| | J41 MGM SZW J43 PIE LAL | |
| Philadelphia (PHL) | J42 GVE DPNT-STAR | |
| Pittsburgh (PIT) | J29 PXV III HNN WISKE-STAR | |
| Sarasota/Bradenton (SRQ) | MGM SZW CLAMP-STAR | |
| Tampa (TPA) | MGM SZW DARBS-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) MEM SZW | |
| | FOXX (RNAV)-STAR | 1100-0400 |

| Terminals | Route | Effective Times (UTC) |
|---------------------------------------|---|-----------------------|
| Washington Dulles (IAD)..... | J42 BKW ROYIL-STAR..... | 1100-1830 |
| | or | |
| | PXV IIU J8 HVQ SHNON (RNAV)-STAR | 1830-2230 |
| | or | |
| | J42 BKW SHNON (RNAV)-STAR | 2230-0300 |
| | or | |
| | PXV IIU J8 HVQ ROYIL-STAR | 1830-2230 |
| Washington Natl (DCA)..... | J42 BKW WZRRD-STAR..... | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J42 BKW ELDEE (RNAV)-STAR..... | |
| West Palm Beach (PBI) | MGM SZW WLACE (RNAV)-STAR..... | |
| Windsor Locks (BDL) | J42 BNA J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK DPK DPK-STAR | |
| MIAMI METRO AREA | | |
| (MIA, HWO, OPF, TMB, HST, X51) | | |
| Albany (ALB) | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 | |
| Atlanta (ATL) | J81 CHESN SINCA-STAR..... | 1000-0300 |
| | or | |
| | (RNAV only) J81 CHESN CANUK (RNAV)-STAR | 1000-0300 |
| Baltimore (BWI) | J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets) VALLY PERMT AR16 ILM J40 RIC OTT-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) VALLEY PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR..... | 1000-0300 |
| Bedford (BED)..... | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or | |
| | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Beverly (BVY)..... | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or | |
| | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Boston (BOS) | J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR ... | 1000-0300 |
| | or | |
| | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ORW-STAR | |
| Chicago Midway (MDW)..... | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR..... | 1000-0300 |
| | or | |
| | (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | 1000-0300 |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 1000-0300 |
| | or | |
| | (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR..... | 1000-0300 |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|--|-----------------------|
| Cincinnati (CVG)..... | (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR | |
| | or | |
| | (all others) CTY J91 VXV HARDU-STAR..... | 1000-0300 |
| Columbus (CMH)..... | J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR | |
| Cross City (CTY)..... | LAL CTY | 1030-0300 |
| Dallas/Fort Worth (DFW) | J616 SRQ Q100 REDFN Q105 HRV J58 AEX CQY . | 1000-0300 |
| | or | |
| | LAL J73 SZW J2 CEW J50 AEX CQY..... | 1000-0300 |
| Danbury (DXR) | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR..... | |
| Daytona Beach (DAB) | J53 HEDLY MLB V3 or MLB V3..... | 1030-0300 |
| Denver (DEN)..... | LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR | |
| Detroit/Wayne (DTW)..... | J53 SPA HNN WEEDA-STAR..... | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), | J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR..... | |
| Detroit (DET), | | |
| Pontiac (PTK), | | |
| Windsor (CYQG) | | |
| Willow Run (YIP) | | |
| Ann Arbor (ARB) | J81 IRQ J85 DJB LLEE0-STAR | |
| Fort Pierce (FPR) | J53 HEDLY or FPR | 1030-0300 |
| Farmingdale (FRG)..... | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| Gainesville (GNV) | Direct | 1030-0300 |
| Hampton (HTO) | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 | |
| Hartford (HFD) | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 | |
| Houston Intcntl (IAH) | (DME/DME-IRU or GPS-equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR | 1000-0300 |
| | or | |
| | J616 SRQ Q100 LEV WOLDE (RNAV)-STAR..... | 1000-0300 |
| Houston Hobby (HOU)..... | (DME/DME-IRU or GPS-equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR..... | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J616 SRQ Q100 LEV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR | 1000-0300 |
| Indianapolis (IND) | LAL CTY J91 ATL J89 IIU DECEE-STAR | 1000-0300 |
| Islip (ISP)..... | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC | |
| Jacksonville (JAX)..... | J53 | 1030-0300 |
| Kennedy (JFK)..... | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | 1000-0300 |
| | or | |
| | J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR | 1000-0300 |
| La Guardia (LGA)..... | (Water) VALLY PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR..... | 1000-0300 |
| | or | |
| | J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR..... | 1000-0300 |
| Lawrence (LWM) | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or | |
| | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |

| Terminals | Route | Effective Times (UTC) |
|---|--|-----------------------|
| Louisville (SDF)..... | CTY J91 ATL HCH DARBY-STAR | 1000-0300 |
| Manchester (MHT)..... | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN..... | |
| Melbourne (MLB) | J53 HEDLY or DRCT..... | 1030-0300 |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU-STAR | 1000-0300 |
| Montreal (CYUL)..... | VALLY PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR | |
| Nantucket (ACK) | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46..... | |
| Nashville (BNA)..... | CTY J91 ATL GQO VOLLS-STAR | 1000-0300 |
| Newark (EWR)..... | (Water) VALLY PERMT AR16 ILM J109 FAK DYLIN-STAR | |
| | or J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) VALLY PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR | 1000-0300 |
| Newburgh (SWF)..... | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| New Haven (HVN)..... | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| New London/Groton (GON) | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO | |
| New Orleans (MSY) | LAL J73 SZW J2 | 1000-0300 |
| | or (Water) J616 SRQ Q100 REDFN Q105 HRV | 1000-0300 |
| Ocala (OCF)..... | J73 LAL or DRCT | 1030-0300 |
| Orlando (MCO)..... | J53 PHK GOOFY-STAR | 1030-0300 |
| | or (PHK GOOFY-STAR | |
| Overwater Routes to the Northeast | (Water-Turbojets) VALLY PERMT AR16 ILM..... | |
| | or (Water-Turbojets) VALLY WOLFO AR18 DIW | |
| Overwater Routes to the Northwest | J616 SRQ Q100 LEV J86 | 1030-0300 |
| | or J616 SRQ Q100 REDFN Q105 HRV J58..... | 1030-0300 |
| Philadelphia (PHL)..... | J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs VCN-STAR..... | 1000-0300 |
| | or (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL RADDs VCN-STAR | 1000-0300 |
| Pittsburgh (PIT) | J53 CRG J51 CAE PSK EKN IHD NESTO-STAR | 1000-0300 |
| Port Columbus Intl (CMH)..... | BNA IJU GAIL (RNAV)-STAR | |
| Poughkeepsie (POU)..... | (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| Providence (PVD) | (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDAN (RNAV)-STAR | |
| Raleigh-Durham (RDU) | (Water-Turbojets) VALLY PERMT AR16 ILM BRADE-STAR..... | 1000-0300 |
| | or J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR..... | 1000-0300 |
| St Louis (STL)..... | WINCO CTY J151 VISQA QBALL-STAR | 1000-0300 |
| | or (/E, /G, /R, /J, /L, /Q) WINCO KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR | |
| Sarasota/Bradenton (SRQ) | J616 | 1030-0300 |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|---|-----------------------|
| Tallahassee (TLH) | J73 | |
| | or | |
| | LAL | 1030-0300 |
| Tampa (TPA) | J43 BRDGE BRDGE-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J43 DEAKK | |
| | DEAKK (RNAV)-STAR | 1030-0300 |
| Toronto (CYYZ) | (Water-Turbojets) VALLY PERMT AR16 ILM J109 | |
| | BUF YOUTH-STAR | |
| Vero Beach (VRB) | DRCT | 1030-0300 |
| | or | |
| | J53 HEDLY | |
| Washington Dulles (IAD) | J53 CRG J51 SAV J207 RDU FAK COATT-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J53 CRG J51 | |
| | SAV J207 RDU FAK BARIN-STAR | 1000-0300 |
| | or | |
| | (Water) VALLEY PERMT AR16 ILM J109 FAK | |
| | COATT-STAR | 1000-0300 |
| | or | |
| | (Water-GPS or DME/DME-IRU equipped) VALLY | |
| | PERMT AR16 ILM J109 FAK BARIN-STAR | 1000-0300 |
| Washington Natl (DCA) | (Turbojets) J53 CRG J51 SAV J55 CHS J165 RIC | |
| | IRONS-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets) VALLY PERMT AR16 ILM J40 | |
| | RIC IRONS-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J53 CRG J51 | |
| | SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Water-Turbojets-GPS or DME/DME-IRU | |
| | equipped) VALLY PERMT ILM J40 RIC OJAAY | |
| | (RNAV)-STAR | 1000-0300 |
| Westhampton (FOK) | (Water-Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 HTO | |
| White Plains (HPN) | (Water-Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 SIE BOUNO-STAR | |
| | or | |
| | (Water-Turbojets) VALLY WOLFO AR18 DIW | |
| | WETRO CEBEE SWL J121 SIE V139 RICED | |
| | RICED-STAR | |
| Wilmington (ILM) | (Water-Turbojets) VALLY PERMT AR16 | |
| Windsor Locks (BDL) | (Water-Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SBY J79 VILLS DPK DPK-STAR | |
| Worcester (ORH) | (Water-Turbojets) VALLY PERMT AR16 ILM | |
| | KEMPR SYB J79 JFK DPK MAD HFD | |
| MOBILE (MOB) | | |
| Houston (HOU) | (DME/DME-IRU or GPS-equipped) SJ1 COLUMBIA | |
| | (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SJ1 J50 AEX DAS-STAR. | |
| Houston (IAH) | (DME/DME-IRU or GPS-equipped) SJ1 WOLDE | |
| | (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SJ1 J50 AEX DAS-STAR. | |
| MYRTLE BEACH (MYR) | | |
| Detroit/ Wayne (DTW) | BKW GEMNI-STAR | |
| NASHVILLE | | |
| Baltimore (BWI) | J42 BKW J147 CSN OTT-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J42 BKW J147 | |
| | CSN OTT-STAR | |
| Boca Raton (BCT) | (GPS or DME/DME-IRU equipped) MGM SZW | |
| | PRRIE (RNAV)-STAR | |

| Terminals | Route | Effective Times (UTC) |
|------------------------------|---|-----------------------|
| Boston (BOS)..... | J46 VXV SPA SPA100 J209 RDU J207 FKN J79 | |
| Chicago/Midway (MDW) | JFK ORW-STAR | |
| | (/E/G/R/J/L/Q only) IIU OKK FISSK | |
| | (RNAV)-STAR | 0000-2359 |
| | or | |
| | (non-advanced RNAV only) IIU OKK V285 CLEFT | |
| | OXI CGT | 0000-2359 |
| Chicago O'Hare (ORD)..... | (/E/G/R/J/L/Q only) IIU HEVAN MZZ ROYKO | |
| | (RNAV)-STAR | 0000-2359 |
| | or | |
| | (non-advanced RNAV only) IIU HEVAN MZZ | |
| | MZZ344/33 OXI KNOX-STAR..... | 0000-2359 |
| | or | |
| | IIU MZZ OXI KNOX-STAR | |
| Cincinnati (CVG)..... | BWG V49 ABB V47 CVG | |
| Cleveland (CLE) | IIU ZABER-STAR..... | |
| Columbus (CMH) | LVT V493 YRK YRK035 APE168 NIKLS | |
| Denver (DEN)..... | FAM J112 BUM J110 GCK J154 RYLIE | |
| | DANDD-STAR | |
| Detroit/Wayne (DTW)..... | (RNAV only) IMPEL VHP FWA MIZAR-STAR | |
| | or | |
| | CCT VHP FWA MIZAR-STAR..... | |
| Fort Lauderdale (FLL) | (all others) J39 MGM SZW J41 PIE FORTL-STAR .. | |
| Fort Myers (FMY, RSW)..... | (Turbojets-GPS or DME/DME-IRU equipped) J39 | |
| | MGM J41 SZW SSCOT (RNAV)-STAR..... | 1100-0300 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) LIT J180 SWB | |
| | ROKIT (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) LIT J180 SWB | |
| | DAS-STAR..... | |
| Houston (IAH) | (Turbojets-GPS or DME/DME-IRU equipped) LIT | |
| | J180 SWB TXMEX (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) LIT J180 SWB | |
| | DAS-STAR..... | |
| Indianapolis (IND) | J39 IIU DECEE-STAR | |
| Kennedy (JFK) | J46 VXV SPA SPA100 J209 ORF J121 SIE | |
| | CAMRN-STAR | |
| La Guardia (LGA) | J42 GVE KORRY-STAR | |
| Miami (MIA) | (all others) J39 MGM SZW J41 PIE CYY-STAR | |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) J39 | |
| | MGM SZW SSCOT (RNAV)-STAR | |
| Minneapolis (MSP) | IIU J89 BAE EAU-STAR..... | |
| Newark (EWR) | SPA J14 J51 FAK DYLIN-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SPA J14 J51 | |
| | FAK PHLBO (RNAV)-STAR | 1100-0400 |
| Orlando (MCO, ORL) | J39 MGM SZW J43 PIE LAL | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J39 MGM SZW | |
| | J43 PIE COSTR (RNAV)-STAR..... | 1100-0400 |
| Philadelphia (PHL)..... | J42 OTT DPNT-STAR..... | |
| Pittsburgh (PIT) | IIU HNN WISKE-STAR | |
| St. Louis (STL) | QBALL-STAR | |
| Toronto (CYYZ)..... | J39 ROD J43 CRL J586 YXU V98 YWT V216 | |
| Washington Dulles (IAD)..... | J42 BKW ROYIL-STAR..... | |
| | or | |
| | J42 BKW SHNON (RNAV)-STAR | |
| Washington Natl (DCA)..... | J42 BKW WZRRD-STAR..... | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J42 BKW | |
| | ELDEE (RNAV)-STAR | |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) | |
| | MGM SZW WLACE (RNAV)-STAR..... | |

| Terminals | Route | Effective Times (UTC) |
|---|---|-----------------------|
| Windsor Locks (BDL)..... | J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK DPK DPK-STAR | |
| ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB) | | |
| Baltimore (BWI) | (Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC RAVNN (RNAV)-STAR | 1100-0400 |
| | or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR | 1100-0400 |
| Detroit/Wayne (DTW) | JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR | |
| Fort Pierce (FPR) | VRB | 1030-0300 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR | 1000-0300 |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV WOLDE (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR | |
| | or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR | 1000-0300 |
| Key West (EYW) | RSW J41 | 1030-0300 |
| Overwater Routes to the Northeast | (Water-Turbojets) MLB LENDS AR16 ILM | |
| | or (Water-Turbojets) MLB ETECK AR18 DIW | |
| Wilmington (ILM) | (Water-Turbojets) MLB LENDS AR16 | |
| From ORLANDO EXECUTIVE (ORL) only | | |
| Albany (ALB) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 | |
| Atlanta (ATL) | J53 CRG DBN SINCA-STAR | |
| | or (RNAV only) J53 CRG DBN CANUK RNAV-STAR | |
| Baltimore (BWI) | (Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR | 1100-0400 |
| | or J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR | 1100-0400 |
| Bedford (BED) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Beverly (BVY) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Bridgeport (BDR) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| Charlotte (CLT) | J53 CRG J51 SAV J207 FLO CTF-STAR | |
| | or (Turbojets-GPS or DME/DME-IRU equipped) J53 CRG J51 SAV HUSTN (RNAV)-STAR | |
| Cincinnati (CVG) | (RNAV only) J53 CRG J45 ATL J43 VXV JAKIE (RNAV)-STAR | |

| Terminals | Route | Effective Times (UTC) |
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| | or | |
| | (all others) J53 CRG J45 ATL J43 VXV | |
| | HARDU-STAR | |
| Cleveland (CLE)..... | J53 SPA J85 TVT040 KEATN KEATN-STAR..... | |
| Columbus (CMH) | J53 SPA J85 HVQ HNN BREMN-STAR | |
| Dallas/Ft. Worth (DFW) | PIE REMIS Q100 REDFN Q105 HRV J58 AEX CQY . | |
| Danbury (DXR) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE V139 RICED | |
| | RICED-STAR | |
| Denver (DEN) | CTY SZW J41 MEM RZC PER GCK J154 RYLIE | |
| | DANDD-STAR | |
| Detroit/Wayne (DTW) | VXV J91 HNN WEEDA-STAR | |
| Detroit Satellites: | | |
| Detroit (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) | J53 CRG J45 ATL J91 VXV J43 FLM DQN | |
| | CRUXX-STAR | 1100-0400 |
| | or | |
| East Hampton (HTO)..... | J53 IRQ J85 DJB LLEEO-STAR | |
| | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 HTO | |
| Farmingdale (FRG)..... | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE CAMRN-STAR | |
| Hartford (HFD) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK DPK MAD V1 | |
| Indianapolis (IND) | J53 CRG J45 ATL J89 IIU DECEE-STAR | |
| Islip (ISP) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SARDI CCC | |
| Kennedy (JFK) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE CAMRN-STAR | 0700-0000 |
| | or | |
| La Guardia (LGA) | J53 CRG J51 SAV J55 CHS J121 SIE | |
| | CAMRN-STAR | |
| | (Water-Turbojets) MLB LENDS AR16 ILM J40 TYI | |
| | HPW J191 PXT KORRY-STAR | 1100-0300 |
| | or | |
| Lawrence (LWM) | J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT | |
| | KORRY-STAR..... | 1100-0300 |
| | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or | |
| | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Louisville (SDF)..... | CTY J91 ATL HCH DARBY-STAR | |
| Manchester (MHT)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK ALB EEN | |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU-STAR | 1100-0400 |
| Montreal (CYUL)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR..... | |
| Nantucket (ACK)..... | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J174 HTO V46..... | |
| Nashville (BNA) | CTY J91 ATL VOLLS-STAR | 1100-0400 |
| Newark (EWR) | (GPS or DME/DME-IRU equipped-WATER) MLB | |
| | LENDs AR16 ILM J109 FAK PHLBO | |
| | (RNAV)-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J53 CRG J51 | |
| | SAV J207 FLO J55 J51 FAK PHLBO | |
| | (RNAV)-STAR | 1100-0400 |
| Newburgh (SWF)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR | |
| | SBY J79 JFK DPK HUDSON-STAR | |
| New Haven (HVN) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE V139 RICED MAD193 | |
| | KEYED | |
| New London (GON) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO | |
| | CEBEE SWL J121 HTO | |

| Terminals | Route | Effective Times (UTC) |
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| Philadelphia (PHL) | (Water-Turbojets) J53 CRG J55 CHS J121 SWL SWLO34 RADD5 VCN-STAR | 1100-0400 |
| Pittsburgh (PIT) | CRG J51 CAE PSK EKN IHD NESTO-STAR | 1100-0400 |
| Poughkeepsie (POU) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR | |
| Providence (PVD) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR | |
| Springfield (CEF) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| St. Louis (STL) | CTY SZW J41 VUZ J151 VISQA QBALL-STAR | 1100-0400 |
| Toronto (CYYZ) | (Water-Turbojets) MLB LENDS AR16 ILM J109 BUF YOUTH-STAR | |
| Washington Natl (DCA) | (Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC OJAAY (RNAV)-STAR | |
| | or | |
| | (Water-Turbojets) MLB LENDS AR16 ILM J40 RIC IRONS-STAR | |
| Washington Dulles (IAD) | (Water-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J109 FAK BARLIN -STAR | |
| | or | |
| | (Water) MLB LENDS AR16 ILM J109 FAK COATT-STAR | |
| Westfield (BAF) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| Westhampton Beach (FOK) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO | |
| White Plains (HPN) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR | |
| | or | |
| | (Water-Turboprops) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR | |
| Windsor Locks (BDL) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| Worcester (ORH) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD | |
| From ORLANDO INTL (MCO) only | | |
| Atlanta (ATL) | MCOY-DP AMG SINCA-STAR | 1100-0400 |
| | or | |
| | (RNAV only) JAGUAR-DP DBN CANUK (RNAV)-STAR | 1100-0400 |
| Baltimore (BWI) | MCOY-DP SAV J55 CHS J79 TYI J40 RIC OTT-STAR | 1100-0400 |
| | or | |
| | (Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR | |
| Bedford (BED) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or | |
| | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Beverly (BVY) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or | |
| | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Boston (BOS) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK ORW-STAR | 1100-0300 |
| | or | |
| | MCOY-DP SAV J55 CHS J79 JFK ORW-STAR | 1100-0300 |
| Bridgeport (BDR) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |

| Terminals | Route | Effective Times (UTC) |
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| Charlotte (CLT)..... | MCOY-DP SAV J207 FLO CTF-STAR..... or (Turbojets-GPS or DME/DME-IRU equipped) MCOY-DP SAV HUSTN (RNAV)-STAR..... | |
| Chicago Midway (MDW)..... | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR..... | 1100-0400 |
| | or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT | 1100-0400 |
| Chicago O'Hare (ORD)..... | (/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR..... | 1100-0400 |
| | or (non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR..... | 1100-0400 |
| Cincinnati (CVG)..... | (RNAV only) MCCOY-DP AMG J45 ATL J43 VXV JAKIE (RNAV)-STAR | |
| | or (all others) MCOY-DP AMG J45 ATL J43 VXV HARDU-STAR | 1100-0400 |
| Columbus (CMH) | MCOY-DP IRQ J53 SPA J85 HVQ HNN BREMN-STAR..... | 1100-0400 |
| Danbury (DXR) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR..... | |
| Detroit/Wayne (DTW) | JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR | |
| Detroit Satellites: Detroit (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) | JAGUAR-DP IRQ J85 DJB LLEEO-STAR | |
| Fort Myers (FMY, RSW) | LBV | |
| Hartford (HFD) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 | |
| Indianapolis (IND) | CTY J91 ATL J89 IIU DECEE-STAR..... | 1100-0400 |
| Islip (ISP) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SARDI CCC | |
| Kennedy (JFK)..... | (Water) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| | or MCOY-DP SAV J55 CHS J121 SIE CAMRN-STAR .. | |
| La Guardia (LGA) | MCOY-DP SAV J207 RDU J55 HPW J191 PXT ENO-STAR | 1100-0300 |
| | or (Water-Turbojets) MLB LENDS AR16 ILM J40 TYI HPW J191 PXT ENO-STAR | |
| Lawrence (LWM)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR..... | |
| | or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Louisville (SDF)..... | CTY J91 ATL HCH DARBY-STAR | 1100-0400 |
| Minneapolis (MSP) | (all others) CTY VUZ ALO KASPR-STAR..... or (/E, /G, /R, /J, /L, /Q) WEBSS BRUTS Q110 FEONA VUZ ALO KASPR-STAR..... | |
| Montreal (CYUL)..... | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR..... | |
| Nantucket (ACK)..... | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO V46..... | |
| Nashville (BNA) | CTY J91 ATL VOLLs-STAR | 1100-0400 |

| Terminals | Route | Effective Times (UTC) |
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| Newark (EWR) | (Water-Turbojets) MLB LENDS AR16 ILM J109 FAK DYLIN-STAR..... or MCOY-DP SAV J207 FLO J55 J51 FAK DYLIN-STAR | 1100-0400 |
| | or J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR | 1100-0400 |
| | (Turbojets-WATER) MLB LENDS AR16 ILM J109 FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) MCCOY SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR | 1100-0400 |
| | or (GPS or DME/DME-IRU equipped-WATER) MLB LEND S AR16 ILM J109 FAK PHLBO (RNAV)-STAR | 1100-0400 |
| Newburgh (SWF) | (Water-Turbojets)-MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| New Haven (HVN) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| New London (GON) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO | |
| Philadelphia (PHL) | (Turbojets) MCOY-DP SAV J55 CHS J121 SWL SWL034 RADD S VCN-STAR | 1100-0400 |
| | or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL RADD S VCN-STAR | |
| Pittsburgh (PIT) | MCOY-DP SAV J51 CAE PSK EKN IHD NESTO-STAR | 1100-0400 |
| Poughkeepsie (POU) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR..... | |
| Providence (PVD) | (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR | |
| Springfield (CEF) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| St. Louis (STL) | CTY J151 VISQA QBALL-STAR..... or (/E, /G, /R, /J, /L, /Q) WEBBS BRUTS Q110 FEONA VUZ J151 VISQA QBALL-STAR | |
| Toronto (CYYZ) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK CFB J95 BUF YOUTH-STAR | |
| Washington Dulles (IAD) | MCOY-DP SAV J55 CHS J165 J109 FAK COATT-STAR | 1100-0300 |
| Westfield (BAF) | (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) DEARY VRB FRWAY (RNAV)-STAR | |
| | or DEARY VRB TUXXI-STAR | |
| PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA) | | |
| Albany (ALB) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 | |
| Atlanta (ATL) | (RNAV only) ORL J81 CHESN CANUK (RNAV)-STAR..... or ORL J81 CHESN SINCA-STAR | 1100-0300 |
| Baltimore (BWI) | (Water-Turbojets) A699 PERMT AR16 ILM J40 RIC OTT-STAR | 1100-0300 |
| | or | |

| Terminals | Route | Effective Times (UTC) |
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| | ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR or (Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR or (GPS or DME/DME-IRU equipped) ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR Bedford (BED)..... | 1100-0300 |
| | (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR or (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR Beverly (BVY)..... | 1100-0300 |
| | (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR or (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR Boston (BOS) | 1100-0300 |
| | (Water-Turbojets) A699 PERMT AR16 KEMPR SBY J79 JFK ORW-STAR or ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR Bridgeport (BDR) | 1100-0400 |
| | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED Charlotte (CLT) | |
| | ORL J53 CRG J51 SAV J207 FLO CTF-STAR or (Turbojets-GPS or DME/DME IRU equipped) ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR Chicago Midway (MDW) | 1100-0300 |
| | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT Chicago O'Hare (ORD)..... | 1100-0400 |
| | (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR or (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR Cincinnati (CVG)..... | 1100-0300 |
| | (All Others) CTY J91 VXV HARDU-STAR or (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR Cleveland (CLE) | 1100-0300 |
| | ORL J53 SPA J85 TVT040 KEATN KEATN-STAR Columbus (CMH)..... | |
| | ORL J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR Cross City (CTY)..... | 1100-0300 |
| | LAL Dallas/Ft Worth (DFW)..... | 1030-0300 |
| | SRQ Q100 REDFN Q105 HRV J58 AEX CQY Danbury (DXR) | |
| | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR Daytona Beach (DAB) | 1030-0300 |
| | MLB Denver (DEN)..... | |
| | SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR or CTY SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR Detroit/Wayne (DTW)..... | |
| | ORL J53 SPA HNN WEEDA-STAR Dixon (DIW) | |
| | (Water-Turbojets) WOLFO AR18 | |

| Terminals | Route | Effective Times (UTC) |
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| East Hampton (HTO) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO | |
| Farmingdale (FRG) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| Fort Myers (RSW) | RSW | 1030-0300 |
| Groton (GON) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO | |
| Hartford (HFD) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 | |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR | 1000-0300 |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR | 1000-0300 |
| Indianapolis (IND) | CTY J91 ATL J89 ILL DECEE-STAR | 1100-0300 |
| Islip (ISP) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SARDI CCC | |
| Jacksonville (JAX) | ORL J53 | 1030-0300 |
| Kennedy (JFK) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE J121 SIE CAMRN-STAR | 1100-0300 |
| | or ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR | 1000-0300 |
| La Guardia (LGA) | (Water-Turbojets) A699 PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR | |
| | or ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR | 1100-0400 |
| Lawrence (LWM) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR | |
| | or (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Louisville (LOU) | CTY J91 ATL HCH DARBY-STAR | 1100-0300 |
| Manchester (MHT) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN | |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU-STAR | 1100-0300 |
| Montreal (CYUL) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR | |
| Nashville (BNA) | CTY J91 ATL GQO VOLLS-STAR | 1100-0300 |
| Nantucket (ACK) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO V46 | |
| Newark (EWR) | (Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR | |
| | or ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR | 1100-0300 |
| | or (WATER) A699 PERMT AR16 ILM J109 FAK DYLIN-STAR | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
|---|---|-----------------------|
| | (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR | 1100-0300 |
| Newburgh (SWF) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR | |
| New Haven (HVN) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED | |
| Ocala (OCF) | LAL | 1030-0300 |
| Orlando (MCO) | BAIRN GOOFY-STAR | 1030-0300 |
| Overwater Routes to the Northeast | (Water) A699 PERMT AR16 ILM or WOLFO AR18 DIW | 1030-0300 |
| Philadelphia (PHL) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL RADDs VCN-STAR | |
| | or ORL J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs VCN-STAR | 1100-0300 |
| Pittsburgh (PIT) | ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR | |
| Poughkeepsie (POU) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR | |
| Providence (PVD) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR | |
| Raleigh/Durham (RDU) | (Water-Turbojets) A699 PERMT AR16 ILM BRADE-STAR | |
| | or ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR | 1100-0400 |
| St. Louis (STL) | TBIRD CTY J151 VISQA QBALL-STAR | |
| | or (/E,/G,/R,/J,/L,/O) TBIRD KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR | |
| Springfield (CEF) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |
| Tallahassee (TLH) | LAL | 1030-0300 |
| Tampa (TPA) | LBV BRDGE-STAR | 1030-0300 |
| | or BRDGE BRDGE-STAR | 1030-0300 |
| | or (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR | 1000-0300 |
| | or (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR | 1030-0300 |
| Toronto (CYYZ) | (Water-Turbojets) A699 PERMT AR16 ILM J109 BUF YOUTH-STAR | |
| Washington Dulles (IAD) | (Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK BARIN-STAR | |
| | or (Water) A699 PERMT AR16 ILM J109 FAK COATT-STAR | |
| | or (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR | |
| | or ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR | |
| Washington Natl (DCA) | (Water) A699 PERMT AR16 ILM J40 RIC IRONS-STAR | |
| | or (Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR | |
| Westfield (BAF) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR | |

| Terminals | Route | Effective Times (UTC) |
|-------------------------------|--|-----------------------|
| Westhampton Beach (FOK) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO | |
| White Plains (HPN) | (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR | |
| | or (Water-Turboprops) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR | |
| Wilmington (ILM) | (Water-Turbojets) A699 PERMT AR16 | |
| Windsor Locks (BDL) | (Water-Turbojets) PERMT A699 AR16 ILM KEMPR SBY J179 VILLS DPK DPK-STAR | |
| Worcester (ORH) | (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD | |
| PENSACOLA (PNS) | | |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 0000-2359 |
| | or (non-advanced RNAV only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 0000-2359 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) ROMMY HRV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) SJI AEX DAS-STAR | 1000-0300 |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) ROMMY HRV WOLDE (RNAV)-STAR | 1000-0300 |
| | or (Non-advanced NAV only) SJI AEX DAS-STAR | 1000-0300 |
| PORT AU PRINCE (MTPP) | | |
| Atlanta (ATL) | (if unable FL370 by CVIKK) JOSES A315 ZIN FLL ORL CRG SINCA-STAR | |
| | or ALBBE A636 ZIN FLL ORL CRG CANUK (RNAV)-STAR | |
| | or (if unable FL370 by CVIKK) ALBBE A636 ZIN FLL ORL CRG SINCA-STAR | |
| | or (if unable FL370 by CVIKK) JOSES A315 ZIN FLL ORL CRG CANUK (RNAV)-STAR | |
| Kennedy (JFK) | BOTES G444 GTK M594 CERDA LUCTI L454 OWENZ CAMRN | |
| | or BOTES G444 GTK M594 CERDA L453 AZEZU BERGH L454 OWENZ CAMRN | |
| | or BOTES G444 GTK L452 OXANA AR8 ECG ORF J121 SIE CAMRN-STAR | |
| | or JOSES A315 ZIN A756 DUKKY A555 ZQA AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| Newark (EWR) | ALBBE M594 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO | |
| | or ALBBE M594 GTK L452 OXANA AR8 ECG FAK DYLIN-STAR | |
| | or ALBBE M594 GTK L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR | |
| RALEIGH-DURHAM (RDU) | | |
| Albany (ALB) | TYI J79 SBY J79 JOANI LGA LGA055 V487 V130.. | 1100-0400 |
| Atlanta (ATL) | PACKK-DP AZELL CAE J4 IRQ SINCA-STAR | 1100-0400 |
| | or | |

| Terminals | Route | Effective Times (UTC) |
|-----------------------------|---|-----------------------|
| | (RNAV only) PACKK-DP AZELL CAE J4 IRQ CANUK RNAV-STAR..... | 1100-0400 |
| Boston (BOS)..... | TYI J79 JFK ORW-STAR..... | |
| Chicago Midway (MDW)..... | PACKK-DP AZELL PSK HVQ FWA GOSHEN-STAR .. | 1100-0400 |
| Chicago O'Hare (ORD)..... | (/E/G/R/J/L/Q only) PACKK-DP AZELL HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR | 1100-0400 |
| | or | |
| | (non-advanced RNAV only) PACKK-DP AZELL HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR . | 1100-0400 |
| Cincinnati (CVG)..... | (RNAV only) HMV JAKIE (RNAV)-STAR..... | |
| | or | |
| | (all others) HMV HARDU-STAR | |
| Columbia (CAE) | FAY-DP FAY FLO | 1100-0400 |
| Dallas/Ft Worth (DFW) | PACKK-DP AZELL SPA J14 VUZ J52 SQS CQY | 1100-0400 |
| Detroit/Wayne (DTW) | AZELL PSK BKW GEMNI-STAR | |
| Fort Lauderdale (FLL) | (Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN FISEL (RNAV)-STAR | |
| | or | |
| | (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR | |
| | or | |
| | (Turbojets) TARL-DP CHS J79 OMN GISSH-STAR . | |
| | or | |
| | (Water-Turbojets) TARL-DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH-STAR..... | |
| | or | |
| | (Turboprops) TARL-DP CHS J79 OMN MLB BLUFI-STAR | |
| | or | |
| | (Water-Turboprops-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR | |
| | or | |
| | (Water-Turboprops) TARL-DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH-STAR..... | |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) VUZ JAN AEX ROKIT (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) VUZ JAN AEX DAS-STAR..... | |
| Houston (IAH)..... | (Turbojets-GPS or DME/DME-IRU equipped) VUZ JAN AEX TXMEX (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) VUZ JAN AEX DAS-STAR..... | |
| Kennedy (JFK)..... | TYI ORF J121 SIE CAMRN-STAR..... | 1100-0400 |
| La Guardia (LGA) | LVL HPW J191 PXT KORRY-STAR | |
| Miami (MIA)..... | (Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN HILEY (RNAV)-STAR | |
| | or | |
| | (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR22 JORAY HILEY (RNAV)-STAR..... | |
| | or | |
| | (Turbojets) TARL-DP CHS J79 OMN ANNEY-STAR. | |
| | or | |
| | (Water-Turbojets) TARL-DP CLB SEELO AR22 JORAY OSOGY ENVOY YOSI MILSY BOYUR HILEY KAINS..... | |
| | or | |
| | (Turboprops) TARL-DP CHS J79 OMN ANNEY-STAR | |
| Newark (EWR)..... | LVL FAK DYLIN-STAR..... | 1100-0300 |
| | or | |

| Terminals | Route | Effective Times (UTC) |
|---------------------------|---|-----------------------|
| | (GPS or DME/DME-IRU equipped) LVL FAK PHLBO (RNAV)-STAR | 1100-0300 |
| Newburgh (SWF) | TYI J79 JFK BDR V91 STUBY | 1100-0300 |
| Orlando (MCO) | (Turbojets) TARL-DP CHS J79 OMN BITHO-STAR.. or (GPS or DME/DME-IRU equipped) TARHEEL-DP CHS J79 OMN CWRLD (RNAV)-STAR | 1100-0400 |
| Orlando (ORL) | (Turbojets) TARL-DP CHS J79 OMN CORLL-STAR . | 1100-0400 |
| Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN FRWAY (RNAV)-STAR ... or (Turbojets) TARL-DP CHS J79 OMN TUXXI-STAR .. or (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR19 AYBID CAYSL (RNAV)-STAR | |
| | or (Water-Turbojets) TARL-DP CLB SEELO AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL | 1100-0400 |
| Philadelphia (PHL) | V3 FAK DPNT-STAR | 1100-0400 |
| Pittsburgh (PIT) | PACK-DP ROA EKN IHD NESTO-STAR | 1100-0400 |
| Sarasota (SRQ) | FAY-DP FAY CAE J75 TAY J85 GNV LAL | 1100-0400 |
| Savannah (SAV) | TARL-DP CHS | 1100-0400 |
| Tampa (TPA) | FAY-DP FAY CAE J75 TAY LZARD-STAR | 1100-0400 |
| | or (GPS or DME/DME-IRU equipped) FAY-DP FAY CAE J75 TAY DADES (RNAV)-STAR | 1100-0400 |
| Windsor Locks (BDL) | TYI J79 SBY J79 JFK DPK-STAR | 1100-0400 |
| SAN JUAN (TJSJ) | | |
| Atlanta (ATL) | HARDE A555 ZQA FLL ORL CRG CANUK (RNAV)-STAR | |
| | or HARDE A555 ZQA FLL ORL CRG SINCA-STAR | |
| | or CONCH R507 | |
| Atlantic City (ACY) | ELMUC L451 LETON L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE | |
| Baltimore (BWI) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR | |
| | or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR | |
| | or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC NOTTINGHAM-STAR | |
| | or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR | |
| Bedford (BED) | ELMUC L454 LUCTI OWENZ HTO ORW GRAYM-STAR | |
| | or ELMUC L451 CERDA L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR | |
| | or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| | or ELMUC L451 LETON L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR | |
| Charlotte (CLT) | ELMUC L451 OLDEY CHS CHESTERFIELD-STAR ... or ELMUC L451 OLDEY CHS HUSTN (RNAV)-STAR.... | |

| Terminals | Route |
|--------------------------|--|
| Cincinnati (CVG)..... | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV JAKIE (RNAV)-STAR |
| | or |
| | ELMUC L451 OLDEY METTA CHS SPA CAE VXV JAKIE (RNAV)-STAR |
| Cleveland (CLE) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN-STAR |
| | or |
| | ELMUC L451 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR |
| Dayton (DAY) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV J43 FLM KEKEE-STAR |
| | or |
| | ELMUC L451 OLDEY METTA CHS CAE VXV J43 FLM KEKEE-STAR |
| Detroit (DTW)..... | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA-STAR |
| | or |
| | ELMUC L451 OLDEY METTA CHS SPA HNN WEEDA-STAR |
| Indianapolis (IND) | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IIU V51 DECEE DECEE-STAR..... |
| | or |
| | ELMUC L451 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR |
| Kennedy (JFK)..... | ELMUC L454 LUCTI L454 OWENZ CAMRN |
| | or |
| | ELMUC L453 LAMER L453 AZEJU BERGH L454 OWENZ CAMRN |
| | or |
| | ELMUC L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR |
| Louisville (SDF)..... | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY-STAR |
| | or |
| | ELMUC L451 OLDEY METTA CHS SPA HCH DARBY-STAR |
| Newark (EWR)..... | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR |
| | or |
| | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR |
| | or |
| | ELMUC L454 LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO..... |
| | or |
| | ELMUC L451 CERDA L453 AZEJU BERGH L454 OWENZ CYN GXU RBV V249 METRO |
| Ottawa (CYOW) | ELMUC L454 LUCTI L454 JFK SYR J599 |
| | or |
| | ELMUC L451 CERDA L453 AZEJU BERGH L454 JFK SYR J599 |
| | or |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 |
| | or |
| | ELMUC L451 OLDEY AR3 CLB ILM SYR J599 |
| Providence (PVD) | ELMUC L454 LUCTI L454 BERGH OWENZ HTO JORDN |
| | or |
| | ELMUC L451 CERDA L453 AZEJU BERGH OWENZ HTO JORDN |
| | or |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN |
| | or |

Effective
Times
(UTC)

| Terminals | Route |
|--------------------------|---|
| Quebec (CYQB) | ELMUC L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN |
| | ELMUC L454 LUCTI L454 JFK PLB J560 |
| | or |
| | ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK PLB J560 |
| | or |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560 |
| | or |
| | ELMUC L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 |
| | Raleigh–Durham (RDU) ELMUC L451 OLDEY ILM BRADE–STAR |
| | Teterboro (TEB)..... ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)–STAR |
| Washington (DCA) | or |
| | ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ |
| | or |
| | ELMUC L454 LUCTI L454 OWENZ..... |
| | or |
| | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)–STAR |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS–STAR |
| | or |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)–STAR..... |
| | or |
| Washington (IAD) | ELMUC L451 OLDEY AR3 CLB ILM J40 RIC IRONS–STAR |
| | or |
| | ELMUC L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)–STAR |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK BARIN (RNAV)–STAR |
| | or |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK COATT–STAR |
| | or |
| | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)–STAR |
| | or |
| | ELMUC L451 OLDEY AR3 CLB ILM J109 FAK COATT–STAR |
| White Plains (HPN) | ELMUC L454 LUCTI L454 OWENZ..... |
| | or |
| | ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ |
| | or |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO–STAR |
| | or |
| | ELMUC L451 OLDEY ECG ORF J121 SIE BOUNO–STAR |
| | ELMUC L454 LUCTI L454 JFK DBK DEER PARK–STAR |
| | or |
| | ELMUC L451 LETON L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DEER PARK–STAR |
| Winsor Locks (BDL) | or |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DEER PARK–STAR |
| | ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IJU J99 BAE MSP |
| | or |
| Winnipeg (CYWG) | |
| | |

Terminals

Route

**SANTO DOMINGO SPECIAL AREA
(MDSO, MDPC, MDLR, MDST, MDPP,
MDJB, MDCT)**

Atlantic City (ACY)

ELMUC L451 OLDEY METTA CHS VXV J89 IIU J99
BAE MSP.....
[ATTENTION: Routes over JUELE fix are for aircraft
that are not HF equipped, not deep over water
equipped or do not want to file deep oceanic
routes. Also, for aircraft with destinations to
Florida airports please see Special High
Altitude Directional Routes.]

BESAS L464 CERDA L451 OLDEY AR3 CLB DIW
WETRO CEBEE SWL J121 SIE

or

BESAS L464 CERDA LNHOM L452 OXANA AR8
ECG SWL J121 SIE

or

(Non-HF equipped) JUELE L463 NUCAR AR3 CLB
DIW WETRO CEBEE SWL J121 SIE

Baltimore (BWI)

BESAS L464 CERDA LNHOM L452 OXANA AR8
ECG RIC NOTTINGHAM-STAR

or

BESAS L464 CERDA LNHOM L452 OXANA AR8
ECG RIC RAVNN (RNAV)-STAR

or

BESAS L464 CERDA L451 OLDEY AR3 CBL ILM
J40 RIC NOTTINGHAM-STAR

or

BESAS L464 CERDA L451 OLDEY AR3 CBL ILM
J40 RIC RAVNN (RNAV)-STAR

or

JUELE L463 NUCAR AR3 CLB ILM J40 RIC
NOTTINGHAM-STAR

or

JUELE L463 NUCAR AR3 CLB ILM J40 RIC RAVNN
(RNAV)-STAR

Bangor (BGR).....

BESAS L464 CERDA LUCTI L454 BERGH HTO LFV
J79

or

BESAS L464 LAMER L453 AZEZU BERGH OWENZ
HTO LFV J79

or

BESAS L464 CERDA LNHOM L452 OXANA AR8
ECG SBY J79 JFK HTO LFV

Bedford (BED).....

BESAS L464 CERDA L451 OLDEY AR3 CLB DIW
WETRO CEBEE SWL J174 HTO ORW
GRAYM-STAR

or

BESAS L464 CERDA LNHOM L452 OXANA AR8
ECG DIW WETRO CEBEE SWL J174 HTO ORW
GRAYM-STAR

or

BESAS L464 LAMER L453 AZEZU BERGH OWENZ
HTO ORW GRAYM-STAR

or

BESAS L464 CERDA LUCTI L454 BERGH OWENZ
HTO ORW GRAYM-STAR

or

JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE
SWL J174 HTO ORW GRAYM-STAR

Boston (BOS)

BESAS L464 CERDA L451 OLDEY AR3 CLB ILM
KEMPR SBY J79 JFK NORWICH-STAR

or

BESAS L464 CERDA L451 OLDEY AR3 CLB ILM
KEMPR SBY J49 JFK INNDY (RNAV)-STAR

or

BESAS L464 CERDA LNHOM L452 OXANA AR8
ECG SBY J79 JFK INNDY (RNAV)-STAR

or

| Terminals | Route | Effective Times (UTC) |
|----------------------------|---|-----------------------|
| Charlotte (CLT) | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG SBY J79 JFK NORWICH-STAR | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 | |
| | JFK NORWICH-STAR | |
| | or | |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 | |
| | JFK INNDY (RNAV)-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY | |
| | J79 JFK NORWICH-STAR | |
| | BESAS L464 CERDA L451 OLDEY CHS | |
| Chicago O'Hare (ORD) | CHESTERFIELD-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY CHS HUSTN | |
| | (RNAV)-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY CHS | |
| | CHESTERFIELD-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY CHS HUSTN | |
| | (RNAV)-STAR | |
| | JUELE L463 NUCAR AR3 OLDEY AR4 CH SPA HMV | |
| | FLM J24 BIGXX ROYKO (RNAV)-STAR | |
| Cincinnati (CVG)..... | BESAS L464 CERDA L451 OLDEY METTA CHS | |
| | SPA HMV JAKIE (RNAV)-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG FAK J24 HVQ HNN JAVIT-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA | |
| | HMV JAKIE (RNAV)-STAR | |
| | BESAS L464 CERDA L451 OLDEY METTA CHS | |
| | CAE HVQ TVT KEATN-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| Cleveland (CLE) | ECG HVQ TVT KEATN-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE | |
| | HVQ TVT KEATN-STAR | |
| | BESAS L464 CERDA L451 OLDEY METTA CHS | |
| | CAE SPA HMV FLM KEKEE-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG FAK J24 HVQ HNN | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE | |
| | SPA HMV FLM KEKEE-STAR | |
| Dayton (DAY) | BESAS L464 CERDA L451 OLDEY METTA CHS | |
| | CAE SPA HMV FLM KEKEE-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG FAK J24 HVQ HNN | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE | |
| | SPA HMV FLM KEKEE-STAR | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG HNN WEEDA-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY METTA CHS | |
| Detroit (DTW)..... | SPA HNN WEEDA-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA | |
| | HNN WEEDA-STAR | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG IIU V51 DECEE DECEE-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY METTA CHS | |
| | SPA CAE XXV J89 IIU V51 DECEE DECEE-STAR .. | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA | |
| | CAE XXV J89 IIU V51 DECEE DECEE-STAR | |
| Indianapolis (IND) | BESAS L464 LAMER L453 AZEZU BERGH L454 | |
| | OWENZ CAMRN | |
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| Kennedy (JFK)..... | | |
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| Terminals | Route | Effective Times (UTC) |
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| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG ORF J121 SIE CAMRN-STAR | |
| | or | |
| | BESAS L464 CERDA LUCTI L454 OWENZ CAMRN . | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW | |
| | WETRO CEBEE SWL J121 SIE CAMRN-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 PANAL DIW WETRO | |
| | CEBEE SWL J121 SIE CAMRN-STAR | |
| La Guardia (LGA) | BESAS L464 LAMER L453 AZEJU BERGH L454 | |
| | OWENZ CAMRN | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG HPW J191 PXT KORRY-STAR | |
| | or | |
| | BESAS L464 CERDA LUCTI L454 OWENZ CAMRN . | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| | J40 TYI HPW J191 PXT KORRY-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J40 TYI HPW | |
| | J191 PXT KORRY-STAR | |
| Louisville (SDF) | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG HCH DARBY-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY METTA CHS | |
| | SPA HCH DARBY-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA | |
| | HCH DARBY-STAR | |
| Montreal (CYMX), (CYUL) | BESAS L464 LAMER L453 AZEJU BERGH L454 | |
| | JFK J37 ALB J6 PLB PLATTSBURGH-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY | |
| | J79 JFK J37 ALB J6 PLB PLATTSBURGH-STAR .. | |
| Morristown (MMU) | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG FAK JAIKE (RNAV)-STAR | |
| | or | |
| | BESAS L464 LAMER L453 AZEJU BERGH L454 | |
| | OWENZ | |
| | or | |
| | BESAS L464 CERDA LUCTI L454 OWENZ | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| | J109 FAK JAIKE (RNAV)-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE | |
| | (RNAV)-STAR | |
| Newark (EWR) | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG FAK DYLIN-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG FAK PHLBO (RNAV)-STAR | |
| | or | |
| | BESAS L464 LAMER L453 AZEJU BERGH L454 | |
| | OWENZ CYN GXU RBV V249 METRO | |
| | or | |
| | BESAS L464 CERDA LUCTI L454 BERGH L454 | |
| | OWENZ CYN GXU RBV V249 METRO | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| | J109 FAK DYLIN-STAR | |
| | or | |

Effective
Times
(UTC)

| Terminals | Route |
|----------------------------|---|
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR |
| | or |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK DYLIN-STAR |
| | or |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR |
| Ottawa (CYOW) | BESAS L464 CERDA LUCTI L454 JFK SYR J599 ... |
| | or |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 JFK SYR J599 |
| | or |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 |
| | or |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM SYR J599 |
| | or |
| | JUELE L463 NUCAR AR3 CLB ILM SYR J599 |
| Philadelphia (PHL) | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL RADDs CEDAR LAKE-STAR |
| | or |
| | BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL RADDs CEDAR LAKE-STAR |
| | or |
| | BESAS L464 LAMER L453 AZEZU B24 SIE |
| Providence (PVD) | BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO JORDN |
| | or |
| | BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO JORDN |
| | or |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN |
| | or |
| | BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN |
| | or |
| | JUELE L463 NUCAR AR3 PANAL DIW SWL J174 HTO JORDN |
| Quebec (CYQB) | BESAS L464 CERDA LUCTI L454 JFK PLB J560 |
| | or |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 JFK PLB J560 |
| | or |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560 |
| | or |
| | BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 |
| | or |
| | JUELE L463 NUCAR AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 |
| Raleigh/Durham (RDU) | BESAS L464 CERDA L451 OLDEY ILM BRADE-STAR |
| | or |
| | JUELE L463 NUCAR ILM BRADE-STAR |
| Teterboro (TEB) | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR |
| | or |
| | BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ |
| | or |
| | BESAS L464 CERDA LUCTI L454 OWENZ |
| | or |

| Terminals | Route | Effective Times (UTC) |
|---------------------------|---|-----------------------|
| Toronto (CYYZ) | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| | J109 FAK JAIKE (RNAV)-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR | |
| | BESAS L464 LAMER L453 AZEJU BERGH L454 | |
| | JFK J63 HUO CFB J95 BUF YOUTH | |
| | (RNAV)-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| | J109 BUF YOUTH (RNAV)-STAR | |
| Washington (DCA) | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 BUF | |
| | YOUTH (RNAV)-STAR | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG RIC IRONS-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG RIC OJAAY (RNAV)-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| Washington (IAD) | J40 RIC IRONS-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| | J40 RIC OJAAY (RNAV)-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J40 RIC | |
| | IRONS-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR | |
| | BESAS L464 CERDA LNHOM L452 OXANA ECG | |
| White Plains (HPN) | FAK BARIN (RNAV)-STAR | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA ECG | |
| | FAK COATT-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| | J109 FAK BARIN (RNAV)-STAR | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| | J109 FAK COATT-STAR | |
| Windsor Locks (BDL) | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK | |
| | BARIN (RNAV)-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM J109 FAK | |
| | COATT-STAR | |
| | BESAS L464 CERDA L451 OLDEY ECG ORF J121 | |
| | SIE BOUNO-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 PANAL DIW WETRO | |
| | CEBEE SWL J121 SIE BOUNO-STAR | |
| | or | |
| | BESAS L464 CERDA LUCTI L454 OWENZ | |
| | or | |
| | BESAS L464 LAMER L453 AZEJU BERGH L454 | |
| | OWENZ | |
| | or | |
| | BESAS L464 CERDA LNHOM L452 OXANA AR8 | |
| | ECG ORF J121 SIE BOUNO-STAR | |
| | BESAS L464 CERDA L451 OLDEY AR3 CLB ILM | |
| | KEMPR SBY J79 JFK DPK DPK-STAR | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
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| | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DPK-STAR | |
| | or | |
| | JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK DPK DPK-STAR | |
| Winnipeg (CYWG) | BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG IJU J99 BAE MSP | |
| | or | |
| | BESAS L464 CERDA L451 OLDEY METTA CHS VXV J89 IJU J99 BAE MSP | |
| | or | |
| | JUELE L463 NUCAR AR3 OLDEY METTA CHS VXV J89 IJU J99 BAE MSP | |
| SARASOTA-BRADENTON AREA (SRQ) | | |
| Baltimore (BWI) | TAY J75 CAE J52 RIC OTT-STAR | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR | 1100-0300 |
| Charlotte (CLT) | TAY J85 IRQ UNARM-STAR | |
| | or | |
| | (Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR | |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IJU OKK FISSK (RNAV)-STAR | 1100-0300 |
| | or | |
| | (non-advanced RNAV only) CTY J91 ATL J89 IJU OKK V285 CLEFT OXI CGT | 1100-0300 |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR | 0000-2359 |
| | or | |
| | (non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR | 0000-2359 |
| Cincinnati (CVG) | (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR | |
| | or | |
| | (all others) CTY J91 VXV HARDU-STAR | |
| Cleveland (CLE) | PIE J119 TAY J85 TVT040 KEATN KEATN-STAR | |
| Columbus (CMH) | PIE J119 TAY J85 HVQ HNN BREMN-STAR | |
| Dallas/Ft. Worth (DFW) | (Water) SRQ Q100 REDFN Q105 HRV J58 AEX CQY | |
| Denver (DEN) | (Water) Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR | |
| Detroit/Wayne (DTW) | PIE TAY J85 SPA HNN WEEDA-STAR | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), Pontiac (PTK), Willow Run (YIP) | PIE J119 TAY J85 IRQ J99 VXV J43 FLM DQN CRUX-STAR | |
| Young (DET) | PIE J119 TAY J85 DJB LLEE0-STAR | |
| Fort Lauderdale (FLL) | (all others) RSW FORTL-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) RSW FORTL JINGL (RNAV)-STAR | |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR | |
| | or | |
| | (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR | |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR | |
| | or | |

| Terminals | Route | Effective Times (UTC) |
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| | (GPS or DME/DME-IRU equipped) SZW J2 SJJ WOLDE (RNAV)-STAR..... | |
| | or | |
| | (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR..... | |
| Indianapolis (IND) | CTY J91 ATL J89 IJU DECEE-STAR..... | |
| La Guardia (LGA) | TAY J75 DUNKN J210 VAN FLO J207 RDU J55 HPW J191 PXT KORRY-STAR..... | |
| Louisville (LOU, SDF) | CTY J91 ATL HCH DARBY-STAR..... | |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU-STAR..... | |
| Nashville (BNA) | CTY J91 ATL GQO VOLLS-STAR..... | 1100-0300 |
| Newark (EWR) | TAY J75 CAE J51 FAK DYLIN-STAR..... | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE J51 FAK PHLBO (RNAV)-STAR..... | 1100-0300 |
| Philadelphia (PHL) | TAY J75 CAE J51 FAK DPNT-STAR..... | |
| Pittsburgh (PIT) | TAY J75 CAE PSK J53 EKN IHD NESTO-STAR..... | |
| Windsor Locks (BDL) | TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR..... | 0700-0000 |
| SAVANNAH (SAV) | | |
| Baltimore (BWI) | CHS J79 TYI J40 RIC OTT-STAR..... | 1100-0400 |
| Philadelphia (PHL) | CHS J121 SWL SWL SWL034 RADDS VCN-STAR.. | 1100-0400 |
| Washington Dulles (IAD) | J207 RDU FAK COATT-STAR..... | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J207 RDU FAK BARIN-STAR..... | |
| TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF) | | |
| Atlanta (ATL) | SZW LGC-STAR..... | |
| | or | |
| | (RNAV only) SZW HONIE (RNAV)-STAR..... | |
| Baltimore (BWI) | TAY J75 CAE J52 RIC OTT-STAR..... | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR..... | 1100-0400 |
| Boston (BOS) | TAY J75 DUNKN J210 J79 JFK ORW-STAR..... | 1100-0400 |
| Charlotte (CLT) | TAY J85 IRQ UNARM-STAR..... | |
| | or | |
| | (Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR..... | |
| Chicago Midway (MDW) | (/E/G/R/J/L/Q only) CTY J91 ATL J89 IJU OKK FISSK (RNAV)-STAR..... | 1100-0300 |
| | or | |
| | (non-advanced RNAV only) CTY J91 ATL J89 IJU OKK V285 CLEFT OXI CGT..... | 1100-0300 |
| Chicago O'Hare (ORD) | (/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK MZZ ROYKO (RNAV)-STAR..... | 0000-2359 |
| | or | |
| | (non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR..... | 0000-2359 |
| Cincinnati (CVG) | (All Others) CTY J91 VXV HARDU-STAR..... | |
| | or | |
| | (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR..... | |
| Cleveland Metro (CLE) | PIE J119 TAY J85 TVT040 KEATN KEATN-STAR... | |
| | or | |
| | CTY J91 HNN TVT KEATN-STAR..... | |
| Columbus (CMH) | PIE J119 TAY J85 HVQ HNN BREMN-STAR..... | |
| | or | |
| | CTY J91 HNN BREMN-STAR..... | |
| Denver (DEN) | SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR..... | |
| Detroit/Wayne (DTW) | TAY J85 SPA HNN WEEDA-STAR..... | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), Pontiac (PTK), Young | | |
| (DET) | CTY J91 VXV J43 FLM DQN CRUXX-STAR..... | |
| Willow Run (YIP) | CTY J91 VXV J43 FLM DQN V98 VQQ CRUXX..... | |

| Terminals | Route | Effective Times (UTC) |
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| Windsor (CYQG) | PIE J119 TAY J85 DJB LLEEO-STAR | |
| Fort Lauderdale: | | |
| Hollywood Intl (FLL), Executive (FXE), | | |
| Pompano Beach (PMP), North Perry | | |
| (HWO), Opa Locka (OPF) | (all others) RSW FORTL-STAR | 1030-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SABEE RXXAN | |
| | JINGL (RNAV)-STAR | |
| Fort Myers (RSW), (FMY) | (Turbojets-GPS or DME/DME-IRU equipped) SRQ | |
| | TYNEE (RNAV)-STAR | |
| Fort Pierce (FPR) | VRB | 1030-0300 |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) SIMMR REMIS | |
| | Q100 LEV COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SZW J2 SJI | |
| | COLUMBIA (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Non-advanced NAV only) SZW J2 CEW J50 AEX | |
| | DAS-STAR | 1000-0300 |
| Houston (IAH) | (GPS or DME/DME-IRU equipped) SIMMR REMIS | |
| | Q100 LEV WOLDE (RNAV)-STAR | 1000-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) SZW J2 SJI | |
| | WOLDE (RNAV)-STAR | 1000-0300 |
| | or | |
| | (Non-advanced NAV only) SZW J2 CEW J50 AEX | |
| | DAS-STAR | 1000-0300 |
| Indianapolis (IND) | CTY J91 ATL J89 IIU DECEE-STAR | |
| Kennedy (JFK) | TAY J75 J210 J121 SIE CAMRN-STAR | |
| Key West (EYW) | RSW J41 | 1030-0300 |
| La Guardia (LGA) | TAY J75 DUNKN J210 VAN FLO J207 RDU J55 | |
| | HPW J191 PXT KORRY-STAR | 1100-0400 |
| Louisville (SDF) | CTY J91 ATL HCH DARBY-STAR | |
| Miami (MIA) | (all others) RSW CY Y CY-STAR | 1030-0300 |
| | or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) RSW | |
| | CYY SSCOT (RNAV)-STAR | |
| Minneapolis (MSP) | CTY J91 ATL J89 BAE EAU-STAR | |
| Nashville (BNA) | CTY J91 ATL GQO VOLLS-STAR | |
| Newark (EWR) | TAY J75 CAE J51 FAK DYLIN-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE | |
| | J51 FAK PHLBO (RNAV)-STAR | 1100-0400 |
| Philadelphia (PHL) | TAY J75 CAE J51 FAK DPNT-STAR | 1100-0400 |
| Pittsburgh (PIT) | TAY J75 CAE PSK EKN IHD NESTO-STAR | |
| Raleigh-Durham (RDU) | TAY J75 CAE BUZZY-STAR | |
| Washington Dulles (IAD) | TAY J75 CAE J51 FAK COATT-STAR | 1100-0400 |
| Washington Natl (DCA) | TAY J75 CAE J52 RIC IRONS-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) TAY J75 CAE | |
| | J52 RIC OJAAY (RNAV)-STAR | 1100-0400 |
| West Palm Beach (PBI) | (Turbojets-GPS or DME/DME-IRU equipped) | |
| | SABEE JOOOE WLACE (RNAV)-STAR | |
| Windsor Locks (BDL) | TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR | 0700-0000 |
| From St Petersburg (PIE) only: | | |
| Detroit/Wayne (DTW) | TAY J85 SPA HNN WEEDA-STAR | |
| Detroit Satellites: | | |
| Ann Arbor (ARB), Pontiac (PTK) Willow | | |
| Run (YIP) | CTY J91 VXV J43 FLM DQN CRUXX-STAR | |
| Windsor (CYQG), Young (DET) | PIE J119 TAY J85 DJB LLEEO-STAR | |

PREFERRED IFR ROUTES **SPECIAL HIGH ALTITUDE ARRIVAL ROUTES** **FOR ATLANTA HARTSFIELD INTL ARPT** **(JETS AND TURBOPROPS)**

NORTHEAST

Traffic originating North and East of J186 to North of a line from ATL to RDU file:

| | |
|-------|----------------------------------|
| ..... | MOL WHINZ-STAR |
| | or |
| ..... | MOL FLCON (RNAV)-STAR |
| ..... | J145 ODF WHINZ-STAR |
| | or |
| ..... | J145 ODF FLCON (RNAV)-STAR |
| ..... | VXV WHINZ-STAR |
| | or |
| ..... | VXV FLCON (RNAV)-STAR |
| ..... | J186 ODF WHINZ-STAR |
| | or |
| ..... | J186 ODF FLCON (RNAV)-STAR |
| ..... | SPA ODF WHINZ-STAR |
| | or |
| ..... | SPA ODF FLCON (RNAV)-STAR |

SOUTHEAST

Traffic originating South of a line from ATL to RDU, to East of J89 file:

| | |
|-------|-----------------------------|
| ..... | IRQ SINCA-STAR |
| | or |
| ..... | IRQ CANUK (RNAV)-STAR |
| ..... | DBN SINCA-STAR |
| | or |
| ..... | DBN CANUK (RNAV)-STAR |

SOUTHWEST

Traffic originating West of J89 to South and West of J14 file:

| | |
|-------|-----------------------------|
| ..... | MEI LGC-STAR |
| | or |
| ..... | MEI HONIE (RNAV)-STAR |
| ..... | SZW LGC-STAR |
| | or |
| ..... | SZW HONIE (RNAV)-STAR |
| ..... | MGM LGC-STAR |
| | or |
| ..... | MGM HONIE (RNAV)-STAR |

NORTHWEST

Traffic originating West and North of J43 to North of J14 file:

| | |
|-------|-----------------------------|
| ..... | BWG RMG-STAR |
| | or |
| ..... | BWG ERLIN (RNAV)-STAR |
| ..... | BNA RMG-STAR |
| | or |
| ..... | BNA ERLIN (RNAV)-STAR |
| ..... | MEM RMG-STAR |
| | or |
| ..... | MEM ERLIN (RNAV)-STAR |

**SPECIAL HIGH ALTITUDE ARRIVAL ROUTES
FOR ATLANTA TERMINAL AREA AIRPORTS
(SATELLITE AIRPORTS ONLY JETS AND TURBOPROPS)**

NORTHEAST

Traffic originating North and East of a line from ATL to VXV to North of a line from ATL to RDU file:

| | |
|-------|---------------------------|
| ..... | J48 ODF AWSON-STAR |
| ..... | J145 ODF AWSON-STAR |
| ..... | VXV AWSON-STAR |
| ..... | J186 ODF AWSON-STAR |
| ..... | SPA ODF AWSON-STAR |

SOUTHEAST

Traffic originating South of a line from ATL to RDU, to East of J89 file:

| | |
|-------|----------------------|
| ..... | IRQ TRBOW-STAR |
| ..... | DBN TRBOW-STAR |

SOUTHWEST

Traffic originating West of J89 to South and West of J14 file:

| | |
|-------|--------------------------|
| ..... | MEI LGC MIKEE-STAR |
| ..... | SZW LGC MIKEE-STAR |
| ..... | MGM LGC MIKEE-STAR |

NORTHWEST

Traffic originating West and North of a line from ATL to VXV to North of J14 file:

| | |
|-------|----------------------|
| ..... | GQO BUNNI-STAR |
| ..... | RQZ BUNNI-STAR |

**SPECIAL HIGH ALTITUDE ARRIVAL ROUTES
FOR CHARLOTTE TERMINAL AREA**

NORTHEAST

Traffic originating North and East of J53 to North of a line from CLT to RDU file:

| | |
|-------|-----------------------------|
| ..... | LYH MAJIC-STAR |
| ..... | RDU SUDSY (RNAV)-STAR |
| ..... | ROA MAJIC-STAR |

SOUTHEAST

Traffic originating South of a line from CLT to RDU to South and East of J51 file:

| | |
|-------|-----------------------------|
| ..... | FLO CTF-STAR |
| ..... | FLO HUSTN (RNAV)-STAR |

SOUTHWEST

Traffic originating West of J51 to South of J118 file:

| | |
|-------|-----------------------------|
| ..... | ATL ADENA (RNAV)-STAR |
| ..... | ATL UNARM-STAR |
| ..... | IRQ ADENA (RNAV)-STAR |
| ..... | IRQ UNARM-STAR |

NORTHWEST

Traffic originating West of J53 to North of J118 file:

| | |
|-------|----------------------|
| ..... | VXV SHINE-STAR |
| ..... | HMV SHINE-STAR |

PREFERRED IFR ROUTES

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR MEMPHIS TERMINAL AREA

NORTHEAST

Traffic entering Memphis ARTCC north of J118:

| | |
|-------|-----------------------|
| ..... | BNA WILDER-STAR |
| ..... | BWG WILDER-STAR |
| ..... | PXV WILDER-STAR |

NORTHWEST

Traffic entering Memphis ARTCC on or west of J35:

| | | |
|-------|------------------------|-----------|
| ..... | FAM GQE-STAR | |
| ..... | ARG GQE-STAR | |
| ..... | SGF ARG GQE-STAR | |
| ..... | RZC GQE-STAR | |
| ..... | FSM GQE-STAR | 1100-0200 |

SOUTHEAST

Traffic entering Memphis ARTCC south of J118:

| | | |
|-------|------------------------------------|-----------|
| ..... | VUZ HLI-STAR (MONDAY-FRIDAY) | |
| ..... | GQO HLI-STAR | 1100-0200 |

SOUTHWEST

Traffic entering Memphis ARTCC on or south of J6:

| | | |
|-------|------------------------|-----------|
| ..... | LIT MARVELL-STAR | |
| ..... | TXK MARVELL-STAR | |
| ..... | ELD MARVELL-STAR | |
| ..... | SQS MARVELL-STAR | 1100-0200 |

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

| Terminals | Route | Effective Times (UTC) |
|--|---|-----------------------|
| Traffic entering Miami Center (ZMA) for northbound | Caribbean flights originating from Santo Domingo UIR (MDCS) to: | |
| FLL | (Advanced RNAV equipped) JUELE L463 | |
| | BTLE A555 ZQA 054V CAREY DEKAL | |
| | WAVUN (RNAV)-STAR | |
| | or | |
| | JUELE L463 BTLE A555 ZQA 054V CAREY | |
| | DEKAL DEKAL-STAR | |
| | or | |
| (Advanced RNAV equipped) RETAK A636 ZIN | | |
| A315 HODGY ZQA 054V CAREY DEKAL | | |
| WAVUN(RNAV)-STAR | | |
| | or | |
| | RETAK A636 ZIN A315 HODGY ZQA 054V | |
| | CAREY DEKAL DEKAL-STAR | |
| MIA | (Advanced RNAV equipped) JUELE L463 | |
| | BTLE A555 ZQA FLIPR (RNAV)-STAR | |
| | or | |
| | JUELE L463 BTLE A555 ZQA FOWEE -STAR | |
| | or | |
| | (Advanced RNAV equipped) RETAK A636 ZIN | |
| | A315 HODGY FLIPR(RNAV)- STAR | |
| | or | |
| | RETAK A636 ZIN A315 HODGY FOWEE-STAR | |
| PBI | JUELE L463 BTLE A555 ZQA 054V PBI..... | |
| | or | |
| | RETAK A636 ZIN A315 HODGY ZQA 054V..... | |

PREFERRED IFR ROUTES

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

455

| | Route | Effective Times (UTC) |
|---|---|-----------------------|
| Traffic overflying Atlanta Center originating north and east of a line from TYS to LAL (except DAY and CVG) for ZTL to MCO: | PSK CAE SAV OMN BITHO-STAR | 1100-0400 |
| | or | |
| | J83 SPA CAE SAV OMN BITHO-STAR..... | 1100-0400 |
| | or | |
| | (GPS or DME/DME-equipped) PSK CAE SAV OMN CWRLD (RNAV)-STAR | 1100-0400 |
| | or | |
| | (GPS or DME/DME-IRU equipped) J83 SPA CAE SAV OMN CWRLD (RNAV)-STAR | 1100-0400 |
| Traffic overflying Atlanta Center Eastbound originating South of a line from DFW to JFK: | | |
| BDL | GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR..... | |
| BOS | (Turbojet only) GRD J209 RDU J207 FKN J79 JFK ORW-STAR | |
| | or | |
| | (Turboprop only) SIE J121 HTO V308 ORW V16 WOONS | |
| BWI | SPA J14 RIC OTT-STAR..... | |
| | or | |
| | (GPS or DME/DME-IRU equipped) SPA J14 RIC RAVNN (RNAV)-STAR | |
| DCA..... | SPA J14 RIC IRONS-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) SPA J14 RIC OJAAY (RNAV)-STAR | |
| EWR | SPA J14 J15 FAK DYLIN-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) SPA J14 J51 FAK PHLBO (RNAV)-STAR | |
| IAD | SPA J14 J51 FAK COATT-STARR..... | |
| JFK..... | GRD J209 ORF J121 SIE CAMRN-STAR | |
| LGA | AHN J208 HPW J191 PXT KORRY-STAR | |
| PHL | SPA J14 J51 FAK DPNT-STAR | |
| Northbound from over VXV with destination of CMH: | VXV J91 HNN BREMN-STAR..... | |
| Traffic overflying Atlanta Center Northbound from over SPA to CMH: | SPA J85 HVQ HNN BREMN-STAR | |
| Traffic overflying Atlanta Center Northbound from over PSK to CMH: | PSK HVQ HNN BREMN-STAR..... | |
| Traffic overflying Atlanta Center Southbound originating North and East of line from VXV to LAL (except DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI, RSW, SRQ and TPA file: | PSK CAE..... | 1100-0300 |
| | or | |
| | J83 SPA J85 AMG..... | 1100-0300 |
| Traffic overflying Atlanta Center Southbound originating North and East of a line from VXV to LAL (with DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI and RSW file: | | |
| | VXV J91 ATL OTK..... | 1100-0300 |
| | or | |
| | BNA J73 SZW | 1100-0300 |
| | or | |
| | MGM J20 SZW | 1100-0300 |
| | or | |
| | BNA J73 SZW | 1100-0300 |
| | or | |
| | MGM J20 SZW | 1100-0300 |

PREFERRED IFR ROUTES

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

| | Route | Effective Times (UTC) |
|--|--|-----------------------|
| Traffic originating South of Wilmington VORTAC (ILM): | | |
| EWR | ILM J109 FAK DYLIN-STAR | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) ILM J109 | |
| | FAK PHLBO (RNAV)-STAR | 1100-0300 |
| FRG | (Water-Turbojets) WOLFO AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE CAMRN-STAR | |
| JFK | (Water-Turbojets) WOLFO AR18 DIW WETRO | |
| | CEBEE SWL J121 SIE CAMRN-STAR | 1100-0300 |
| LGA | ILM TYI HPW J191 PXT KORRY-STAR | 1100-0300 |
| Traffic overflying Ormond Beach VORTAC (OMN) destined MIA: | | |
| OMN | OMN J79 VRB HEATT-STAR | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to La Romana (MDLR) and Nagua (MDCY): | | |
| ZMA | LETON L450 GTK ASIVO | |
| | or | |
| | LNHOM L452 GTK ASIVO | |
| | or | |
| | LAMER L464 CERDA L453 ASIVO | |
| | or | |
| | MLLER M594 CERDA L459 ASIVO | |
| | or | |
| | NUCAR L463 RNDLY ASIVO | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Puerto Plata (MDPP): | | |
| ZMA | LETON L450 SEKAR A554 PTA | |
| | or | |
| | LNHOM L452 GTK A554 PTA | |
| | or | |
| | LAMER L453 MACKI B891 PTA | |
| | or | |
| | LUCTI L454 MNDEZ M594 CERDA L453 | |
| | MACKI B891 PTA | |
| | or | |
| | MLLER M594 CERDA L453 MACKI B891 | |
| | PTA | |
| | or | |
| | NUCAR L463 RNDLY SEKAR A554 PTA | |
| | or | |
| | WATRS M596 PTA | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Santo Domingo (MDSD): | | |
| ZMA | LETON L450 SEKAR A554 CDO | |
| | or | |
| | LNHOM L452 GTK L450 SEKAR A554 CDO... | |
| | or | |
| | LAMER L453 ASIVO CDO | |
| | or | |
| | LUCTI L454 MNDEZ M594 CERDA L453 | |
| | ASIVO CDO | |
| | or | |
| | MLLER M594 CERDA L453 ASIVO CDO | |
| | or | |
| | NUCAR L463 RNDLY SEKAR A554 CDO | |

PREFERRED IFR ROUTES

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

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| | Route | Effective Times (UTC) |
|---|---|-----------------------------|
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Port au Prince (MTPP): | | |
| ZMA | LETON L450 GTK G444 OBN | |
| | or | |
| | LNHOM L452 GTK G444 OBN | |
| | or | |
| | LAMER L464 CERDA M594 GTK G444 OBN . | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Johns Island (TAPA): | | |
| ZMA | LETON L451 ELMUC L451 ANU | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L451 ANU | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L451 ANU | |
| | or | |
| | LUCTI L454 ELMUC L451 ANU | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Bridgetown (TBPB): | | |
| ZMA | LETON L451 ELMUC L454 ILURI A555 BGI ... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 ILURI A555 BGI | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 ILURI A555 BGI | |
| | or | |
| | LUCTI L454 ELMUC L454 ILURI A555 BGI | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Fort de France (TFFF): | | |
| ZMA | LETON L451 ELMUC L454 ILURI A555 FOF... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 ILURI A555 FOF | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 ILURI A555 FOF | |
| | or | |
| | LUCTI L454 ELMUC L454 ILURI A555 FOF | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Grand Case (TFFG) and Saint Barthelemy (TFFJ) and Oranjestad-Roosevelt (TNCE) and Sanit Maarten (TNCM) and The Valley (TQPF): | | |
| ZMA | LETON L451 ELMUC L451 PJM | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L451 PJM | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L451 PJM | |
| | or | |
| | LUCTI L454 ELMUC L451 PJM | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Point a Pitre (TFFR): | | |
| ZMA | LETON L451 ELMUC L454 LEEEO MODUX R888 PPR | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 LEEEO MODUX R888 PPR | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 LEEEO MODUX R888 PPR | |
| | or | |
| | LUCTI L454 ELMUC L454 LEEEO MODUX R888 PPR | |

PREFERRED IFR ROUTES

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

| | Route | Effective Times (UTC) |
|---|---|-----------------------|
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Thomas Virgin Islands (TIST): | | |
| ZMA | LETON L451 ELMUC L454 PANMO JETSS | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 | |
| | PANMO JETSS | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 | |
| | PANMO JETSS | |
| | or | |
| | LUCTI L454 ELMUC L454 PANMO JETSS | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Croix Virgin Islands (TISX): | | |
| ZMA | LETON L451 ELMUC L454 PANMO COY | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 | |
| | PANMO COY | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 | |
| | PANMO COY | |
| | or | |
| | LUCTI L454 ELMUC L454 PANMO COY | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Aguadilla (TJBQ): | | |
| ZMA | LETON L451 ELMUC BQN | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC BQN | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC BQN | |
| | or | |
| | LUCTI L454 ELMUC BQN | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJIG): | | |
| ZMA | LETON L451 ELMUC IDAHO BEANO | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC IDAHO | |
| | BEANO | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC IDAHO | |
| | BEANO | |
| | or | |
| | LUCTI L454 ELMUC IDAHO BEANO | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Mayaguez (TJMZ): | | |
| ZMA | LETON L451 ELMUC MAZ | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC MAZ | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC MAZ | |
| | or | |
| | LUCTI L454 ELMUC MAZ | |

PREFERRED IFR ROUTES

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

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| | Route | Effective Times (UTC) |
|--|--|-----------------------------|
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Ponce (TJPS): | | |
| ZMA | LETON L451 ELMUC PSE..... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC PSE | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC PSE | |
| | or | |
| | LUCTI L454 ELMUC PSE..... | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJSJ): | | |
| ZMA | LETON L451 ELMUC IDAHO R006 | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC IDAHO R006 | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC IDAHO R006 | |
| | or | |
| | LUCTI L454 ELMUC IDAHO R006..... | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Golden Rock (TKPK) and Charlestown (TKPN): | | |
| ZMA | LETON L451 ELMUC L454 LEEEO DANDE G633 SKB..... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC L454 LEEEO DANDE G633 SKB | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC L454 LEEEO DANDE G633 SKB | |
| | or | |
| | LUCTI L454 ELMUC L454 LEEEO DANDE G633 SKB..... | |
| Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Crown Point (TTCP) and Port of Spain (TTPP): | | |
| ZMA | LETON L451 ELMUC G431 DDP G449 POS... | |
| | or | |
| | LNHOM L452 JORGG L451 ELMUC G431 DDP G449 POS | |
| | or | |
| | LAMER L453 CERDA L451 ELMUC G431 DDP G449 POS | |
| | or | |
| | LUCTI L454 ELMUC G431 DDP G449 POS.... | |
| | or | |
| | GTK L452 ANADA G449 POS | |

PREFERRED IFR ROUTES HIGH ALTITUDE—SINGLE DIRECTION ROUTES

| Airway | Segment Fixes | Direction Effective | Effective Times (UTC) |
|------------|--|------------------------|-----------------------------|
| J14 | Greensboro, NC to Richmond, VA | Northeast | 1100-0300 |
| J37 | Coyle, NJ to Spartanburg, SC | Southwest | 1100-0300 |
| J40 | Wilmington, NC to Richmond, VA | North | 1100-0300 |
| J48 | Pottstown, PA to Foothills, GA | Southwest | 1100-0300 |
| J51 | Columbia, SC to Yardley, NJ | Northeast | 1100-0300 |
| J52 | Columbia, SC to Richmond, VA | Northeast | 1100-0300 |
| J55 | Florence, SC to HUBBS Int., VA | Northeast | 1100-0300 |
| J75 | Modena, PA to Greensboro, NC | Southwest | 1100-0300 |
| J89 | Atlanta, GA to HITTR Int, FL | South | 1100-0300 |
| J91 | Cross City, FL to Atlanta, GA | North | 1100-0300 |
| J109 | Wilmington, NC to Buffalo, NY | North | 1100-0300 |
| J165 | Charleston, SC to Richmond, VA | North | 1100-0300 |
| J191 | Wilmington, NC to Robbinsville, NJ | North | 1100-0300 |
| J193 | HUBBS Int., VA to Wilmington, NC | South | 1100-0300 |
| J207 | Florence, SC to Franklin, VA | Northeast | 1100-0300 |
| J208 | Athens, GA to Hopewell, VA | Northeast | 1100-0300 |
| J209 | Greenwood, SC to Norfolk, VA | Northeast | 1100-0300 |

GULF OF MEXICO "Q ROUTES"

These area navigation routes extend more than 12 miles off shore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 3, International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL).

Q100

LEV VORTAC
 REDFN N28°52.98'/W088°42.11'
 ROZZI N28°18.87'/W086°42.31'
 REMIS N27°53.04'/W085°15.47'
 SRQ VORTAC

Q102

LEZ VORTAC
 BLVNS N28°22.94'/W088°02.05'
 BUNNZ N28°00.58'/W086°45.76'
 BACCA N27°35.51'/W085°20.66'
 CIGAR N27°29.61'/W084°46.99'
 BAGGS N27°08.06'/W082°50.45'
 CYY VORTAC

Q105

HRV VORTAC
 FATSO N29°41.40'/W089°47.08'
 REDFN N28°52.98'/W088°42.11'
 BLVNS N28°22.94'/W088°02.05'

Q-ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

| Route | Segment | DME |
|-----------|-------------------|--|
| Q1 | ELMAA-ERAVE | BTG, OLM, HQM, HUH, UBG |
| | ERAVE-EASON | BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG |
| | EASON-EBINY | CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT |
| | EBINY-ENVIE | CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS |
| | ENVIE-ETCHY | OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS |
| | ETCHY-POINT REYES | LIN, ECA, RBL, ENI, SAC, OAK |
| Q2 | BOILE-HEDVI | HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR |
| | HEDVI-HOBOL | BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS |
| | HOBOL-ITUCO | TFD, GBN, BLH, PXR, TUS, CIE, SSO |
| | ITUCO-NEWMAN | EWM, TFD, PXR, CIE, SSO, TUS, TCS |
| Q3 | FEPOT-FAMUK | OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG |
| | FAMUK-FRFLY | BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT |
| | FRFLY-FINER | OED, EUG, RBL, LMT, ENI, CVO, FJS |
| | FINER-FOWND | OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS |
| | FOWND-POINT REYES | LIN, ECA, PYE, RBL, SAC, ENI |
| Q4 | BOILE-HEDVI | HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR |
| | HEDVI-SCOLE | EED, BLH, BZA, GBN, TRM, IPL, TFD |
| | SCOLE-SPTFR | EED, BLH, BZA, GBN, TRM, IPL, TFD |
| | SPTFR-ZEBOL | EED, IPL, BZA, GBN, TFD, PXR, BLH |
| | ZEBOL-SKTRR | PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS |
| | SKTRR-EL PASO | EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME |

| Route | Segment | DME |
|-------|--------------------------|--|
| Q5 | HAROB-HISKU | OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH |
| | HISKU-HARPR | ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV |
| | HARPR-HOMEG | CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV |
| | HOMEG-HUPTU | SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS |
| | HUPTU-STIKM | OAK, ECA, PYE, LIN, SAC, ENI, RBL |
| Q7 | JINMO-JOGEN | CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA |
| | JOGEN-JUNEJ | LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG |
| | JUNEJ-JAGWA | RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS |
| | JAGWA-AVENAL | OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ |
| Q9 | SUMMA-SMIGE | OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH |
| | SMIGE-SUNBE | IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG |
| | SUNBE-REBRG | RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR |
| Q11 | REBRG-DERBB | CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA |
| | PAAGE-PAWLI | EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA |
| | PAWLI-PITVE | EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO |
| | PITVE-PUSHH | FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ |
| Q13 | PUSHH-LOS ANGELES | SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS |
| | All segments | None; GNSS required |
| | All segments | None; GNSS required |
| Q15 | PLESS-NASHVILLE | ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX |
| Q20 | CORONA-HONDS | CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME |
| | HONDS-UNNOS | CNX, INK, CME, TXO, TCC |
| | UNNOS-FUSCO | FST, ACH, INK, CME, SJT, TXO, TCC |
| | FUSCO-JUNCTION | ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST |
| Q21 | JONEZ-RAZORBACK | BYP, EOS, TUL, TXK, ADM, RZC, OKM |
| Q22 | GUSTI-OYSTY | AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV |
| | OYSTY-ACMES | RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI |
| | ACMES-CATLN | SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI |
| Q23 | FORT SMITH-RAZORBACK | OKM, RZC, EOS, TUL |
| Q24 | LAKE CHARLES-BATON ROUGE | AEX, DAS, LCH, MCB, LFT, BTR |
| | BATON ROUGE-IRUBE | AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY |
| | IRUBE-PAYTN | GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI |
| | MEEOW-WALNUT RIDGE | ELD, MEM, LIT, FAM, RZC |
| Q25 | WALNUT RIDGE-WLSUN | MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH |
| | WLSUN-POCKET CITY | BWG, PXV, ENL, BNA, TTH |
| | WALNUT RIDGE-DEVAC | LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG |
| Q26 | FORT SMITH-ZALDA | OKM, SGF, RZC, EOS, TUL |
| Q27 | GRAZN-PYRMD | EIC, LIT, ELD, OKM, TXK |
| | PYRMD-HAKAT | ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK |
| | HAKAT-ESTEE | ARG, LIT, FAM, SGF, MEM |
| | ESTEE-POCKET CITY | ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA |
| Q29 | HARES-MEMPHIS | MEM, ARG, LIT, JAN, ELD, SQS |
| | MEMPHIS-SIDAE | MEM, PXV, BNA, BWG, ARG, ENL |
| | SIDAE-POCKET CITY | PXV, TTH, BWG, ENL |
| Q30 | SIDON-VULCAN | GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG |
| Q31 | DHART-JODOX | SQS, LIT, TXK |
| | JODOX-MARVELL | SQS, LIT, ELD, MEM, ARG |
| | MARVELL-TIDE | ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH |
| | TIDE-POCKET CITY | BWG, PXV, ENL, TTH |
| Q32 | EL DORADO-GAGLE | AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK |
| | GAGLE-CRAMM | JAN, SQS, MEM, ARG, VUZ, BNA, LIT |
| | CRAMM-NASHVILLE | BWG, MEM, VUZ, BNA, GQO |
| | NASHVILLE-SWAPP | BWG, IIU, PXV, VVX, BNA, GQO |
| Q33 | DHART-LITTLE ROCK | AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS |
| | LITTLE ROCK-PROWL | ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL |
| | TEXARKANA-MATIE | LIT, SWB, TXK, BYP, EIC, ELD, SQS |
| Q34 | MATIE-MEMPHIS | LIT, ARG, MEM, ELD, SQS |
| | MEMPHIS-SWAPP | BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VVX |
| | KIMBERLY-NEERO | LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO |
| Q35 | NEERO-WINEN | BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE |
| | WINEN-CORKR | CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK |
| | CORKR-DRAKE | TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD |

| Route | Segment | DME |
|-------|-----------------------|--|
| Q36 | RAZORBACK-TWITS | RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT |
| | TWITS-DEPEC | MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU |
| | DEPEC-NASHVILLE | GQO, BWG, BNA, PXV, IIU |
| | NASHVILLE-SWAPP | VXV, BWG, BNA, GQO, PXV, IIU |
| Q38 | ROKIT-INCIN | DAS, LCH, SWB, IAH, LFK, HUB, AEX |
| | INCIN-LAREY | JAN, MCB, SWB, AEX |
| | LAREY-BESOM | JAN, JYU, MEI, SQS, VUZ |
| Q40 | ALEXANDRIA-DOOMS | AEX, SWB, LCH, JAN, HEZ, MCB |
| | DOOMS-WINAP | JAN, SQS, MEI, MCB |
| | WINAP-MISLE | MEI, VUZ, JYU |
| Q42 | KIRKSVILLE-STRUK | CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX |
| | STRUK-DANVILLE | ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK |
| | DANVILLE-MUNCIE | GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM |
| | MUNCIE-HIDON | FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC |
| Q104 | HIDON-BUBAA | AIR, APE, HNN, CXR, HVQ, EWC, DJB |
| | BUBAA-PSYKO | AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB |
| | PSYKO-BRNAN | PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT |
| | BRNAN-MAALS | EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE |
| | MAALS-SUZIE | ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK |
| | SUZIE-EAST TEXAS | JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN |
| | EAST TEXAS-ELIOT | HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK |
| | DEFUN-HEVVN | PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG |
| | HEVVN-PLYER | PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD |
| | PLYER-SWABE | PIE, ORL, OMN, SRQ, TAY |
| | SWABE-ST PETERSBURG | LAL, ORL, OMN, SRQ, PHK, PIE |
| | ST PETERSBURG-CYPRESS | PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN |
| Q106 | SMELZ-BULZI | LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW |
| | BULZI-DRABK | AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI |
| | DRABK-GADAY | MGM, PZD, OTK, JYU, SZW, CEW, SJI |
| Q108 | GADAY-HKUNA | CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG |
| Q110 | THNOR-JAYMC | SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI |
| | JAYMC-RVERO | VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP |
| | RVERO-KPASA | OMN, PIE, PBI, SRQ, ORL, LAL |
| | KPASA-BRUTS | SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG |
| Q112 | BRUTS-GULFR | OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK |
| | GULFR-FEONA | TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM |
| | DEFUN-HEVVN | PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB |
| | HEVVN-INPIN | JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG |
| Q116 | KPASA-BRUTS | SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG |
| | BRUTS-GULFR | OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK |
| | GULFR-CEEYA | MCN, AMG, PZD, OTK, SZW, TAY |
| Q118 | KPASA-BRUTS | SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG |
| | BRUTS-LENIE | OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN |
| Q501 | VIXIS-GOPHER | ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU, DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF |
| | GOPHER-SOBME | FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD |
| | KENPA-GOPHER | SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD |
| Q504 | GOPHER-SOBME | FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD |
| | NOTAP-CESNA | SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC, SAW, GRB, BRD |
| | CESNA-HEMDI | ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD |
| Q505 | OMAGA-RIMBE | SSM, TVC, ASP, SAW, GRB |
| | RIMBE-CESNA | SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI |
| | CESNA-HEMDI | GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB |

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcome.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

| | |
|---|--|
| Albuquerque | ABQ, GUP, HANOS or ZUN |
| Austin | ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV |
| Boca Raton, FL | TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY |
| Burbank includes Santa Monica and Van Nuys | GMN, MARKS or DAG LAS or HEC EED or PMD BLH |
| Chicago Terminal Area | IOW, PLL275065, MZV or BAE |
| Dallas/Fort Worth Terminal Area | ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR Or MLC J105 SGF BDF BRADFORD-STAR |
| Denver Terminal Area | PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE, CABET, WEEDS, OR BINKE |
| Fort Lauderdale (or) Fort Lauderdale Executive | THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI |
| Houston Bush | LIT, ELD, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR or Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42 |

| | |
|--------------------------------------|--|
| Houston Hobby | LIT, ELD, MLC, JCT, or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42 |
| Jacksonville, FL | TAY |
| Kansas City Terminal Area | TIFTO, CATTs or KENTN |
| Los Angeles, includes Ontario | GMN, RZS or DAG LAS or TRM EED or TRM PKE |
| Las Vegas | DOBNE, MOSBI, NICLE, TRALR or ZELOT |
| Long Beach includes Orange County | GMN SNS, EHF, LANDO or TRM PKE or TRM EED |
| Memphis | BNA, HAAWK, SALMS or SQS |
| Miami Terminal Area | WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI |
| Milwaukee | GREAS |
| Minneapolis Terminal Area* | ONL, ABR, FAR, OBH, OVR, FOD |
| New Orleans Terminal Area | AEX, MEI, SQS, KAPLN |
| Orlando Terminal Area | WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI |
| Palm Beach, FL | TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY |
| Palm Springs | TRM JOTNU BLD or TRM EED or TRM PKE |
| Phoenix | CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK |
| Portland, OR | PDT, TIMEE |

| | |
|---|--|
| Salt Lake City | HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR |
| Saint Louis | VIH, MAP, MYERZ, MCM or HLV MCI |
| San Antonio Terminal Area | FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH |
| San Diego | TRM EED or TRM PKE or TRM JOTNU BLD |
| San Francisco Bay Area | GALLI, INSLO, HAROL JSICA |
| Oakland | GALLI, INSLO, HAROL JSICA |
| San Jose | GALLI or INSLO |
| Seattle | BLUIT |
| Southwest Florida Airports (RSW/FMY) | JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI |
| Tampa Terminal Area | FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY |

*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

Catch Points for Airports Located Outside HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

| | |
|-----------------------|--|
| Atlanta Terminal Area | Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVA or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)–STAR or PATYN HONIE (RNAV)–STAR |
|-----------------------|--|

| | |
|-----------------------------|---|
| Baltimore–Washington* | GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ |
| Boston* | GEP, CRL, ECK, IIU, BNA or VUZ |
| Buffalo* | GEP, CRL |
| Hartford Bradley* | GEP, CRL |
| Canton–Akron* | GIJ, VHP, GEP |
| Charlotte | BNA, VUZ |
| Cincinnati Terminal Area | BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT |
| Cleveland Terminal Area* | OBK |
| Detroit Terminal Area | BAE MKG POLAR–STAR or VHP FWA MIZAR–STAR |
| Detroit Young | VHP FWA or LAN SPRTN–STAR |
| Indianapolis Terminal Area | BIB, SPI, JOT |
| Louisville | ENL, MEM |
| Newark* | GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM |
| New York Kennedy* | GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY–STAR |
| New York LaGuardia* | GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ |
| Philadelphia Terminal Area* | GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ |
| Pittsburgh Terminal Area* | VHP, GIJ, BAE, GEP |
| Pontiac | LFD, LAN, VHP, FWA, GEP |
| Providence | JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ |
| Raleigh–Durham | FLM, IIU, BNA, VUZ |
| Toronto Terminal Area | ECK, SVM, SSM, GEP |
| Teterboro* | GEP, VHP, CRL, BNA, VUZ |
| Washington Dulles/National* | GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ |
| White Plains* | GEP, VHP, CRL, FLM, IIU, BNA, VUZ |
| Willow Run* | LAN, LFD, VHP, FWA, GEP |

*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

| | |
|---------------------------------|--|
| Albuquerque Terminal Area | CURLY CURLY-STAR or ESPAN FRIHO-STAR or LAVAN LAVAN-STAR or FTI FRIHO-STAR or MIERA MIERA-STAR |
| Austin Terminal Area | Aircraft west of a north-south line at LFK, BLEWE or Aircraft east of a north-south line at LFK, IDU or LLO |
| Boca Raton, FL | CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or SZW INPIN SHDAY (RNAV)-STAR |
| Chicago Midway | CVA MOTIF-STAR or PIA MOTIF-STAR or DBQ CVA MOTIF-STAR or LMN MOTIF-STAR |
| Chicago O'Hare Terminal Area | GEP DLL MSN JVL JANESVILLE-STAR or TVC PULLMAN-STAR or FOD DBQ JVL JANESVILLE-STAR or MCW JANESVILLE-STAR or GCK IRK BRADFORD-STAR |
| Dallas/Fort Worth Terminal Area | IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM or Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW or Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS or Aircraft through ZME airspace from J52 and south of J52, SQS |

| | |
|---|---|
| Denver Terminal Area | OATHE DANDD-STAR |
| | or |
| | HGO QUAIL-STAR |
| | or |
| | LOPEC-STAR |
| | or |
| | ALS LARKS-STAR |
| | or |
| | HBU POWDR-STAR |
| | or |
| | EKR TOMSN-STAR |
| | or |
| | CHE TOMSN-STAR |
| | or |
| | BFF LANDR-STAR |
| | or |
| | LBF SAYGE-STAR |
| | or |
| | HCT SAYGE-STAR |
| | or |
| | RSK LARKS-STAR |
| | or |
| | LAA QUAIL-STAR |
| | or |
| | GCK J154 RYLIE DANDD-STAR |
| | or |
| | OCS J154 ALPOE RAMMS-STAR |
| | or |
| | YANKI J114 SNY LANDR-STAR |
| | or |
| | Aircraft filed BIL or east, MBW RAMMS-STAR |
| Ft Lauderdale or Ft Lauderdale Executive | CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR |
| | Aircraft through ZHU airspace remain south ZME and ZTL airspace |
| | or |
| Houston Bush | SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR |
| | CRP, CVE, LLO, LUKIY, SAT |
| | or |
| | Aircraft south and east of LLA, JEPEG |
| | or |
| | MISLE Q40 AEX |
| | or |
| | Aircraft north and east of SJI, SJI |
| | or |
| | Aircraft east of PXV, PXV Q31 DHART SWB |
| | or |
| | Aircraft north and west of PXV, PROWL Q33 DHART SWB |
| Houston Hobby | CRP, ELLVR, SAT, SWB |
| | or |
| | Aircraft south and east of GIRLY, KCEEE |
| | or |
| | Aircraft north and east of SJI, SJI |
| | or |
| | BESOM Q38 ROKIT ROKIT-STAR |
| | or |
| | Aircraft east of PXV, PXV Q29 HARES SWB |
| | or |
| | Aircraft north and west of PXV, PROWL Q33 DHART SWB |
| Jacksonville | GADAY ZOOSS TAY |
| | Aircraft through ZHU airspace remain south of ZME and ZTL airspace |
| | or |
| | ZOOSS TAY |

| | |
|---------------------------|---|
| John Wayne–Orange County | HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI |
| Kansas City Terminal Area | LMN BRAYMER–STAR or PWE ROBINSON–STAR or EMP JHAWK–STAR |
| Las Vegas | DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA PGS LYNSY |
| Los Angeles Terminal Area | Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI |
| Miami Terminal Area | CEW DEFUN Q104 CYY DEEDS (RNAV)–STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVNV Q104 CYY DEEDS (RNAV)–STAR |
| Minneapolis Terminal Area | Aircraft from north, west, south, FAR GOPHER–STAR or RWF SKETR–STAR or ALO KASPR–STAR or BRD GOPHER–STAR or BAE EAU CLAIRE–STAR or FOD TWOLF–STAR |
| Memphis Terminal Area | ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD |
| Naples, FL | CEW DEFUN Q104 PLYER PIKKR (RNAV)–STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVNV Q104 PLYER PIKKR (RNAV)–STAR |
| Nashville | CCT, GHM, GUITR, TINGS, VOLLS |
| New Orleans Terminal Area | BLUEZ, GPT, LCH, MCB, TBD, FATSO |
| Oakland | ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY |
| Orlando Terminal Area | GADAY Q108 CLAWZ LEESE–STAR Aircraft through ZHU airspace remain south of ZME/ZTL airspace or OTK LEESE–STAR |

| | |
|------------------------------|---|
| Palm Beach, FL | CEW DEFUN Q112 INPIN GULLO (RNAV)–STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)–STAR |
| Phoenix | CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS |
| Phoenix Satellites | FLG, SSO, MOHAK or VYLLA, TUS |
| Portland, OR Terminal Area | ARNIT BONVL–STAR or LARNO BONVL–STAR or MOXEE MOXEE–STAR |
| St. Louis Terminal Area | SGF TRAKE–STAR or BUM TRAKE–STAR or ANX TRAKE–STAR or LMN IRK RIVRS–STAR or RBS VANDALIA–STAR |
| Salt Lake City Terminal Area | JNC J12 HELPR SPANE–STAR or EKR MTU SPANE–STAR or BCE DTA–TCH or MLF DTA–TCH or BVL BONNEVILLE–STAR or BYI BEARR–STAR or PIH BEARR–STAR or DBS BRIGHAM CITY–STAR or JAC BRIGHAM CITY–STAR or BPI BRIGHAM CITY–STAR or OCS BRIGHAM CITY–STAR |
| San Diego Terminal Area | EED, LAX, GBN |
| Santa Ana | HEC, PGS, BLD, HIPPI |
| San Antonio Terminal Area | IDU, CSI, JCT, LLO, CRP, LRD or West of a north–south line at LFK, BLEWE or East of a north–south line at LFK, IDU |

| | |
|---|---|
| San Francisco | FMG GOLDEN GATE–STAR |
| | or |
| | MVA MODESTO–STAR |
| | or |
| | ENI GOLDEN GATE–STAR |
| | or |
| | OAL MODESTO–STAR |
| San Jose | or |
| | South of a line ILC to DVC, REANA KATTS OAL MODESTO–STAR |
| | FMG HYP EL NIDO–STAR |
| | or |
| | OAL HYP EL NIDO–STAR |
| | or |
| | ENI GOLDEN GATE–STAR |
| Seattle Terminal Area | or |
| | South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO–STAR |
| | Aircraft From northeast, southeast, south, TEMPL GLASR–STAR |
| | or |
| | SUNED CHINS–STAR |
| | or |
| | BTG OLMYPIA–STAR |
| Southwest Florida Airports RSW and FMY | CEW DEFUN Q104 SWABE JOSFF–STAR |
| | Aircraft through ZHU airspace remain south of ZME and ZTL airspace |
| | or |
| | SZW HEVVN Q104 SWABE JOSFF–STAR |
| Tampa Terminal Area | CEW DEFUN Q104 HEVVN DARBS–STAR |
| | Aircraft through ZHU airspace remain south of ZME and ZTL airspace |
| | or |
| | SZW DARBS–STAR |
| Tucson | DRK PXR |
| | or |
| | MOHAK GBN |

VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

BALTIMORE–WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
|----------------|---------------------------|-------------------------|
| VPAXI | _____ | N38°34.57' /W076°20.38' |
| VPONX | _____ | N39°06.65' /W076°55.92' |
| VPOOP | _____ | N38°56.32' /W076°36.90' |

BOSTON HELICOPTER CHART

| | | |
|-------|-------|-------------------------|
| VPBAY | _____ | N42°16.17' /W070°49.48' |
| VPBLT | _____ | N42°19.67' /W070°53.40' |
| VPCGS | _____ | N42°22.08' /W071°03.13' |
| VPEVS | _____ | N42°23.52' /W071°04.10' |
| VPFEN | _____ | N42°12.58' /W071°08.88' |
| VPFRE | _____ | N42°25.03' /W071°12.32' |
| VPGLV | _____ | N42°21.88' /W070°52.18' |
| VPHAM | _____ | N42°30.13' /W071°07.15' |
| VPPIK | _____ | N42°20.37' /W071°15.93' |
| VPQUA | _____ | N42°12.10' /W071°04.78' |
| VPQUB | _____ | N42°12.60' /W070°59.83' |
| VPSPF | _____ | N42°24.20' /W071°09.47' |
| VPTOB | _____ | N42°31.42' /W070°59.82' |
| VPWAN | _____ | N42°36.88' /W071°19.45' |

BOSTON TERMINAL AREA CHART

| | | |
|-------|----------------------------|-------------------------|
| VPCOH | Cohasset | N42°13.58' /W070°48.94' |
| VPCUT | Cuttyhunk Harbor | N41°25.50' /W070°55.03' |
| VPFRA | Framingham Shopping Center | N42°18.16' /W071°23.65' |
| VPHOL | Woods Hole | N41°31.06' /W070°40.60' |
| VPHUL | Hull | N42°18.20' /W070°55.30' |
| VPLPT | Nantucket Great Point | N41°23.41' /W070°02.78' |
| VPNED | Needham Towers | N42°18.51' /W071°14.64' |
| VPPEA | Peabody Shopping Center | N42°32.52' /W070°56.69' |
| VPROC | Rockingham Race Track | N42°46.29' /W071°13.57' |
| VPSCI | Scituate | N42°11.89' /W070°43.69' |
| VPTPT | Nantucket Third Point | N41°18.51' /W070°03.37' |
| VPTUC | Tuckernuck | N41°18.31' /W070°15.43' |
| VPWAK | Wakefield | N42°30.72' /W071°05.24' |
| VPWAN | Wang Towers | N42°36.88' /W071°19.45' |

CHARLOTTE SECTIONAL CHART

| | | |
|-------|---------------|-------------------------|
| VPATO | _____ | N34°37.37' /W076°31.47' |
| VPAVA | _____ | N34°57.00' /W077°16.50' |
| VPBFE | _____ | N32°16.38' /W080°47.50' |
| VPBRA | _____ | N36°13.75' /W076°08.08' |
| VPGCE | _____ | N36°03.90' /W076°36.42' |
| VPGHI | _____ | N35°15.30' /W075°31.25' |
| VPGIO | _____ | N35°32.50' /W076°37.33' |
| VPKJU | _____ | N35°26.58' /W076°10.22' |
| VPLMN | _____ | N34°55.43' /W077°46.42' |
| VPMAB | _____ | N34°42.20' /W077°03.50' |
| VPNPO | ISLE OF PALMS | N32°47.78' /W079°46.45' |
| VPOKY | _____ | N35°06.53' /W075°59.17' |
| VPREP | _____ | N32°33.98' /W080°21.82' |
| VPRRS | _____ | N33°25.45' /W079°07.60' |
| VPUMO | _____ | N35°35.63' /W075°28.08' |
| VPWZO | _____ | N36°00.87' /W075°40.07' |
| VPZIE | _____ | N32°01.62' /W080°53.42' |

CHICAGO SECTIONAL CHART

WAYPOINT IDENT
VPCOHCOLLOCATED VFR CHECKPOINT
_____LOCATION
N31°49.35' / W081°51.07'

DENVER TERMINAL AREA CHART/FLYWAY CHART

VPBEN
VPFTG
VPNIC_____

NORTH INTERCHANGEN39°44.28' / W104°26.00'
N39°44.35' / W104°32.75'
N39°58.90' / W104°59.27'

HOUSTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT
VPBWY
VPDTN
VPGLA
VPGLB
VPKTY
VPPLN
VPRSN
VPSND
VPSNT
VPTNE
VPTNW
VPTRKCOLLOCATED VFR CHECKPOINT

_____LOCATION
N29°46.25' / W095°09.24'
N29°46.59' / W095°22.01'
N30°08.32' / W095°06.62'
N30°07.80' / W094°55.70'
N29°47.05' / W095°44.92'
N30°08.80' / W095°50.42'
N29°30.00' / W095°41.00'
N29°23.13' / W095°28.86'
N29°49.29' / W094°53.94'
N29°47.48' / W095°03.34'
N29°47.06' / W095°33.81'
N29°24.06' / W095°10.44'

JACKSONVILLE SECTIONAL CHART

VPAFI
VPAFY
VPBEC
VPCJA
VPCKY
VPCNY
VPDAD
VPDAR
VPDFI
VPDUT
VPEAR
VPEGV
VPPFU
VPGPE
VPHAA
VPHUC
VPIWA
VPJMY
VPKER
VPLEV
VPLJA
VPMIA
VPTLH
VPXZY
VPYIW
VPZIE_____

DADE CITY

CLEARWATER BEACH

ST PETE BEACH

MIDWAY

LAKE PARKER

_____N31°49.35' / W081°51.07'
N30°07.00' / W081°21.33'
N29°46.25' / W081°15.10'
N29°30.00' / W081°06.00'
N28°46.50' / W082°34.00'
N28°30.00' / W080°45.00'
N28°22.57' / W082°11.25'
N31°22.38' / W081°24.13'
N29°00.17' / W081°20.85'
N27°37.70' / W082°09.10'
N27°58.67' / W082°49.83'
N29°39.97' / W081°24.87'
N28°57.08' / W081°00.33'
N27°43.50' / W082°44.67'
N30°04.02' / W083°40.02'
N28°19.87' / W082°43.77'
N31°48.33' / W081°25.85'
N29°26.92' / W081°18.27'
N28°04.00' / W081°56.00'
N28°48.00' / W080°52.00'
N29°00.00' / W080°51.00'
N30°50.02' / W084°56.63'
N30°32.70' / W083°52.22'
N29°35.00' / W083°10.00'
N30°42.28' / W081°27.25'
N32°01.62' / W080°53.42'

KANSAS CITY SECTIONAL CHART

VPAGO
VPBEK
VPDEN
VPENE
VPESSE
VPFME
VPGXY
VPMBE
VPMKE
VPROV
VPUTT_____

_____N37°50.33' / W090°29.03'
N37°15.07' / W092°30.67'
N37°46.75' / W092°19.20'
N37°44.75' / W091°55.78'
N36°59.48' / W091°00.88'
N37°41.00' / W092°38.33'
N37°15.50' / W091°40.17'
N37°11.08' / W090°27.92'
N37°24.47' / W092°40.00'
N38°01.72' / W091°12.81'
N37°52.05' / W092°01.20'

KANSAS CITY TERMINAL AREA CHART

KLAMATH FALLS SECTIONAL CHART

LOS ANGELES HELICOPTER CHART

SE, 03 JUN 2010 to 29 JUL 2010

LOS ANGELES SECTIONAL CHART

| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
|----------------|---------------------------|------------------------|
| VPCNG | CONEJO GRADE US HWY 101 | N34°12.54'/W118°59.61' |
| VPCSU | CSU CHANNEL ISLANDS | N34°09.76'/W119°02.53' |
| VPFPL | OXNARD FINANCIAL PLAZA | N34°13.71'/W119°10.39' |
| VPSTC | SATICOY BRIDGE | N34°16.62'/W119°08.34' |

LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART

| | | |
|-------|---------------------------|------------------------|
| VPCNG | CONEJO GRADE US HWY 101 | N34°12.54'/W118°59.61' |
| VPCSU | CSU CHANNEL ISLANDS | N34°09.76'/W119°02.53' |
| VPGTY | GETTY CENTER | N34°04.84'/W118°28.66' |
| VPLBP | BANNING PASS | N33°56.05'/W116°59.63' |
| VPLCC | CHAFFEY COLLEGE | N34°08.87'/W117°34.33' |
| VPLCP | CAJON PASS | N34°18.07'/W117°27.68' |
| VPLDL | DISNEYLAND | N33°48.72'/W117°55.13' |
| VPLDP | DANA POINT | N33°27.62'/W117°42.87' |
| VPLDS | DODGER STADIUM | N34°04.42'/W118°14.42' |
| VPLFX | 91/605 INTERCHANGE | N33°52.38'/W118°06.08' |
| VPLGP | GRIFFITH PARK OBSERVATORY | N34°07.10'/W118°18.02' |
| VPLHF | 110/405 FWYS | N33°51.42'/W118°17.10' |
| VPLHP | HUNTINGTON PIER | N33°39.32'/W118°00.25' |
| VPLKH | KING HARBOR | N33°50.75'/W118°23.88' |
| VPLLC | L.A. COLISEUM | N34°00.83'/W118°17.27' |
| VPLLM | LAKE MATHEWS | N33°50.58'/W117°26.85' |
| VPLMM | MAGIC MOUNTAIN | N34°26.20'/W118°36.28' |
| VPLMS | MILE SQUARE PARK | N33°43.40'/W117°56.77' |
| VPLPD | PRADO DAM | N33°53.40'/W117°38.48' |
| VPLPP | PACIFIC PALISADES | N34°02.13'/W118°32.15' |
| VPLQM | QUEEN MARY | N33°45.17'/W118°11.37' |
| VPLRB | ROSE BOWL | N34°09.67'/W118°10.05' |
| VPLRT | SANTA ANITA RACE TRACK | N34°08.45'/W118°02.65' |
| VPLSA | SANTA ANA CANYON | N33°52.03'/W117°42.68' |
| VPLSB | SANTA FE FLOOD BASIN | N34°07.72'/W117°57.30' |
| VPLSC | STATE COLLEGE | N33°52.97'/W117°53.13' |
| VPLSF | SAN FERNANDO RESERVOIR | N34°17.87'/W118°29.00' |
| VPLSP | SIGNAL PEAK | N33°36.33'/W117°48.63' |
| VPLSR | HAWTHORNE & 405 FREEWAY | N33°53.07'/W118°21.13' |
| VPLSS | SANTA SUSANA PASS | N34°16.00'/W118°38.43' |
| VPLTW | TUJUNGA WASH & FOOTHILL | N34°16.40'/W118°20.30' |
| VPLVT | VINCENT THOMAS BRIDGE | N33°44.97'/W118°16.32' |
| VPLWT | WATER TANK | N34°10.82'/W118°46.27' |
| VPNEW | NEWHALL PASS | N34°20.18'/W118°30.72' |
| VPSTC | SATICOY BRIDGE | N34°16.62'/W119°08.34' |

MIAMI SECTIONAL CHART

| | | |
|-------|-------------------|------------------------|
| VPACH | HOLLYWOOD BEACH | N26°00.92'/W080°06.93' |
| VPBOV | _____ | N27°57.00'/W080°46.75' |
| VPCLC | _____ | N26°27.07'/W082°00.88' |
| VPCTE | _____ | N26°09.28'/W081°20.70' |
| VPDAD | DADE CITY | N28°22.57'/W082°11.25' |
| VPDUT | _____ | N27°37.70'/W082°09.10' |
| VPDZE | _____ | N27°19.00'/W080°44.17' |
| VPEAR | CLEARWATER BEACH | N27°58.67'/W082°49.83' |
| VPEDY | ANDYTOWN TOLLGATE | N26°08.78'/W080°28.00' |
| VPFAH | _____ | N26°25.40'/W081°29.67' |
| VPGPE | ST PETE BEACH | N27°43.50'/W082°44.67' |
| VPHRO | _____ | N27°05.97'/W082°12.20' |
| VPHUC | _____ | N28°19.87'/W082°43.77' |
| VPIBR | _____ | N27°12.47'/W081°40.22' |
| VPKER | LAKE PARKER | N28°04.00'/W081°56.00' |
| VPKOE | _____ | N24°40.08'/W081°20.55' |
| VPLYV | _____ | N24°49.07'/W080°49.17' |
| VPMB0 | GULFSTREAM PARK | N25°58.57'/W080°08.17' |
| VPOBA | PUMPING STATION | N26°28.30'/W080°26.75' |
| VPRBI | _____ | N25°50.67'/W080°55.18' |
| VPRNL | RANGER STATION | N25°22.92'/W080°36.58' |
| VPWMO | _____ | N27°03.00'/W080°35.00' |

MIAMI TERMINAL AREA CHART/FLYWAY CHART

| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
|----------------|---------------------------|--------------------------|
| VPACH | HOLLYWOOD BEACH | N26°00.92' / W080°06.93' |
| VPEDY | ANDYTOWN TOLLGATE | N26°08.78' / W080°28.00' |
| VPMB0 | GULFSTREAM PARK | N25°58.57' / W080°08.17' |
| VPOBA | PUMPING STATION | N26°28.30' / W080°26.75' |
| VPRBI | | N25°50.67' / W080°55.18' |
| VPRNL | RANGER STATION | N25°22.92' / W080°36.58' |

NEW ORLEANS SECTIONAL CHART

| | | |
|-------|----------------|--------------------------|
| VPGPT | | N30°25.95' / W089°05.62' |
| VPLIP | PHILLIPS INLET | N30°16.23' / W085°59.25' |
| VPMAI | | N30°50.02' / W084°56.63' |
| VPMOB | | N30°23.00' / W088°31.72' |
| VPRAM | | N30°18.95' / W089°35.88' |
| VPRER | | N30°13.87' / W085°20.67' |
| VPRIV | | N30°54.85' / W087°57.82' |
| VPSAW | | N30°49.65' / W089°07.42' |
| VPTHR | | N30°19.93' / W087°08.50' |

NEW YORK HELICOPTER CHART

| | | |
|-------|--|--------------------------|
| VPJAY | | N40°59.00' / W073°07.00' |
| VPLYD | | N40°57.37' / W073°29.59' |
| VPROK | | N40°52.70' / W073°44.24' |

PHOENIX TERMINAL AREA CHART/FLYWAY CHART

| | | |
|-------|---------------------------|--------------------------|
| VPALL | ALLENVILLE | N33°20.97' / W112°35.20' |
| VPAQU | AQUEDUCT PUMPING STATION | N33°40.05' / W112°41.38' |
| VPARM | ARROWHEAD MALL | N33°38.52' / W112°13.48' |
| VPAWG | AHWATUKEE GOLF COURSE | N33°19.98' / W111°59.08' |
| VPAZM | ARIZONA MILLS | N33°23.43' / W111°57.88' |
| VPBAR | BARTLETT DAM | N33°49.10' / W111°37.92' |
| VPCCC | COUNTRY CLUB & CANAL | N33°30.73' / W111°50.37' |
| VPCNL | CANAL | N33°33.23' / W111°46.89° |
| VPFRB | FIREBIRD LAKE | N33°16.35' / W111°58.10' |
| VPFTN | FOUNTAIN HILLS | N33°36.12' / W111°42.72' |
| VPGLX | GILA CROSSING | N33°16.55' / W112°10.08' |
| VPGPP | GLENDALE POWER PLANT | N33°33.27' / W112°13.00' |
| VPMAR | MARICOPA | N33°03.42' / W112°02.88' |
| VPMHS | MESQUITE HIGH SCHOOL | N33°20.53' / W111°49.58' |
| VPNRV | NEW RIVER | N33°55.08' / W112°08.45' |
| VPNTT | NORTH TEST TRACK | N33°03.50' / W111°55.83' |
| VPIIR | PIR | N33°22.52' / W112°18.90' |
| VPQTR | QUINTERO GOLF COURSE | N33°49.53' / W112°23.58' |
| VPRVC | RIO VERDE COMMUNITY | N33°44.37' / W111°39.62' |
| VPSMC | SOUTH MOUNTAIN COLLEGE | N33°23.02' / W112°02.12' |
| VPSQP | SQUAW PEAK | N33°32.83' / W112°01.27' |
| VPSSS | SUPERSTITION SPRINGS MALL | N33°23.50' / W111°41.37' |
| VPSTN | SANTAN MOUNTAINS | N33°09.23' / W111°40.92' |
| VPSTT | SOUTH TEST TRACK | N32°56.25' / W111°59.67' |
| VPZZZ | | N33°20.18' / W111°26.53' |

ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

| | | |
|-------|---------------------------|--------------------------|
| VPAGN | TV ANTENNA | N38°32.08' / W090°22.42' |
| VPBPE | | N38°23.80' / W090°20.38' |
| VPCJY | HOLIDAY SHORES | N38°55.00' / W089°56.00' |
| VPCOJ | WINFIELD DAM | N39°00.28' / W090°41.23' |
| VPDFA | JEFFERSON BARRACKS BRIDGE | N38°29.18' / W090°16.47' |
| VPEAZ | BUSCH STADIUM | N38°37.43' / W090°11.55' |
| VPEDZ | WATER TANKS | N38°45.30' / W090°34.87' |
| VPEGR | GAS TANKS | N38°35.80' / W090°19.32' |
| VPEOX | ST PETERS | N38°47.17' / W090°39.25' |

| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
|----------------|---------------------------|------------------------|
| VPFAI | HOWELL ISLAND | N38°40.00'/W090°43.00' |
| VPFFY | _____ | N38°55.37'/W090°17.30' |
| VPGPF | _____ | N38°35.60'/W090°26.92' |
| VPGVI | _____ | N38°32.30'/W090°27.80' |
| VPHRQ | CHAIN OF ROCKS BRIDGE | N38°45.88'/W090°10.42' |
| VPIBO | WATERLOO | N38°20.00'/W090°09.00' |
| VPJMU | HORSESHOE LAKE | N38°41.00'/W090°05.00' |
| VPKNY | PACIFIC | N38°29.00'/W090°44.00' |
| VPLES | ST CHARLES | N38°47.00'/W090°30.00' |
| VPLIW | SIX FLAGS | N38°30.67'/W090°40.47' |
| VPLXU | GATEWAY ARCH | N38°37.50'/W090°11.00' |
| VPNSY | WOOD RIVER REFINERIES | N38°50.00'/W090°05.00' |
| VPNZY | WENTZVILLE | N38°48.83'/W090°50.98' |
| VPRAZ | JERSEYVILLE | N39°07.00'/W090°20.00' |
| VPRMO | FOREST PARK | N38°38.00'/W090°17.00' |
| VPWKO | COLUMBIA | N38°27.00'/W090°12.00' |
| VPXXI | MILLSTADT | N38°27.50'/W090°05.68' |
| VPYID | MOSENTHEIN ISLAND | N38°43.00'/W090°12.25' |

SALT LAKE CITY HELICOPTER CHART

| | | |
|-------|-----------------------|------------------------|
| VPAIR | SALTAIR | N40°44.85'/W112°11.22' |
| VPBEE | SOUTH INTERCHANGE | N40°38.18'/W111°54.23' |
| VPBRN | BARN | N40°54.28'/W112°10.15' |
| VPCAP | STATE CAPITOL | N40°46.67'/W111°53.25' |
| VPCHS | _____ | N40°42.28'/W112°05.92' |
| VPCOP | BINGHAM COPPER MINE | N40°31.38'/W112°09.00' |
| VPCWY | CAUSEWAY | N41°05.37'/W112°07.17' |
| VPCYN | PARLEYS CANYON | N40°42.67'/W111°48.10' |
| VPFPC | FREE PORT CENTER | N41°05.92'/W112°02.27' |
| VPFPK | FRANCIS PEAK | N41°01.98'/W111°50.30' |
| VPGFS | GARFIELD STACK | N40°43.28'/W112°11.88' |
| VPHVE | SPAGHETTI BOWL | N40°43.50'/W111°54.22' |
| VPJRT | JORDAN RIVER TEMPLE | N40°35.02'/W111°55.58' |
| VPKSL | KSL ANTENNA | N40°46.80'/W112°05.80' |
| VPLGN | LAGOON AMUSEMENT PARK | N40°59.08'/W111°53.57' |
| VPMDH | MCKAY DEE HOSPITAL | N41°11.50'/W111°57.08' |
| VPMMT | MICROWAVE TOWERS | N40°48.50'/W111°53.37' |
| VPMSH | _____ | N41°01.67'/W112°02.47' |
| VPNSL | _____ | N40°50.15'/W111°54.90' |
| VPNTP | _____ | N41°03.57'/W112°14.23' |
| VPOGE | GRAIN ELEVATOR | N41°13.13'/W112°00.45' |
| VPOPS | POWER STATION | N41°20.38'/W112°02.78' |
| VPPEN | STATE PRISON | N40°29.88'/W111°53.62' |
| VPPPT | PROMONTORY POINT | N41°12.28'/W112°25.73' |
| VPPTM | POINT OF THE MOUNTAIN | N40°27.42'/W111°54.83' |
| VPVPO | PROVO CANYON | N40°18.77'/W111°39.45' |
| VPRWY | _____ | N40°48.48'/W112°00.33' |
| VPSLC | I-15/I-80 INTERCHANGE | N40°45.83'/W111°54.85' |
| VPTIP | SOUTH TIP | N40°50.93'/W112°10.92' |
| VPWBR | WEBER CANYON | N41°08.17'/W111°54.83' |
| VPWBT | _____ | N40°38.00'/W112°03.33' |

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

| | | |
|-------|-------------------------|------------------------|
| VPAIR | SALTAIR | N40°44.85'/W112°11.22' |
| VPBEE | SOUTH INTERCHANGE | N40°38.18'/W111°54.23' |
| VPBRN | BARN | N40°54.28'/W112°10.15' |
| VPCAP | STATE CAPITOL | N40°46.67'/W111°53.25' |
| VPCHS | _____ | N40°42.28'/W112°05.92' |
| VPCOP | BINGHAM COPPER MINE | N40°31.38'/W112°09.00' |
| VPVCI | CENTERVILLE INTERCHANGE | N40°55.30'/W111°53.43' |
| VPCWY | CAUSEWAY | N41°05.37'/W112°07.17' |
| VPCYN | PARLEYS CANYON | N40°42.67'/W111°48.10' |
| VPFPC | FREE PORT CENTER | N41°05.92'/W112°02.27' |
| VPFPK | FRANCIS PEAK | N41°01.98'/W111°50.30' |
| VPGFS | GARFIELD STACK | N40°43.28'/W112°11.88' |

| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
|----------------|---------------------------|------------------------|
| VPHVE | SPAGHETTI BOWL | N40°43.50'/W111°54.22' |
| VPJRT | JORDAN RIVER TEMPLE | N40°35.02'/W111°55.58' |
| VPKSL | KSL ANTENNA | N40°46.80'/W112°05.80' |
| VPLGN | LAGOON AMUSEMENT PARK | N40°59.08'/W111°53.57' |
| VPMDH | MCKAY DEE HOSPITAL | N41°11.50'/W111°57.08' |
| VPMMT | MICROWAVE TOWERS | N40°48.50'/W111°53.37' |
| VPMSH | _____ | N41°01.67'/W112°02.47' |
| VPNSL | _____ | N40°50.15'/W111°54.90' |
| VPNTP | _____ | N41°03.57'/W112°14.23' |
| VPOGE | GRAIN ELEVATOR | N41°13.13'/W112°00.45' |
| VPOPS | POWER STATION | N41°20.38'/W112°02.78' |
| VPPEP | STATE PRISON | N40°29.88'/W111°53.62' |
| VPPTT | PROMONTORY POINT | N41°12.28'/W112°25.73' |
| VPPTM | POINT OF THE MOUNTAIN | N40°27.42'/W111°54.83' |
| VPVPO | PROVO CANYON | N40°18.77'/W111°39.45' |
| VPRWY | _____ | N40°48.48'/W112°00.33' |
| VPSLC | I-15/I-80 INTERCHANGE | N40°45.83'/W111°54.85' |
| VP TIP | SOUTH TIP | N40°50.93'/W112°10.92' |
| VPUOU | U OF U EVENTS CENTER | N40°45.73'/W111°50.28' |
| VPWBR | WEBER CANYON | N41°08.17'/W111°54.83' |
| VPWBT | _____ | N40°38.00'/W112°03.33' |
| VPZOO | HOGLE ZOO | N40°45.00'/W111°48.95' |

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

| | | |
|-------|--------------------------|------------------------|
| VPLDP | DANA POINT | N33°27.62'/W117°42.87' |
| VPLSP | SIGNAL PEAK | N33°36.33'/W117°48.63' |
| VPOCN | _____ | N33°14.15'/W117°26.63' |
| VPSBC | BARONA CASINO | N32°56.25'/W116°52.60' |
| VPSBL | _____ | N33°05.18'/W117°18.55' |
| VPSBM | BLACK MOUNTAIN | N32°58.87'/W117°07.00' |
| VPSCF | _____ | N32°48.55'/W117°09.17' |
| VPSCM | COWLES MOUNTAIN | N32°48.72'/W117°01.97' |
| VPSCP | CRYSTAL PIER | N32°47.77'/W117°15.42' |
| VPSCR | _____ | N32°39.37'/W117°07.30' |
| VPSFB | IRON MOUNTAIN | N32°58.25'/W116°57.33' |
| VPSLJ | LAKE JENNINGS | N32°51.53'/W116°53.28' |
| VPSMB | _____ | N32°45.57'/W117°12.22' |
| VPSMP | _____ | N33°22.70'/W117°36.75' |
| VPSMS | MOUNT SOLEDAD | N32°50.40'/W117°15.10' |
| VPSMV | _____ | N32°45.75'/W117°09.80' |
| VPSMW | MOUNT WOODSON | N33°00.52'/W116°58.23' |
| VPSOP | OTAY MESA PRISON | N32°35.82'/W116°55.28' |
| VPSOT | LOWER OTAY LAKE | N32°37.73'/W116°55.38' |
| VPSPL | SOUTH POINT LOMA | N32°39.90'/W117°14.55' |
| VPSPP | POWER PLANT | N33°08.25'/W117°20.23' |
| VPSQS | QUALCOMM STADIUM | N32°46.98'/W117°07.23' |
| VPSRT | DEL MAR RACE TRACK | N32°58.58'/W117°15.95' |
| VPSSM | SAN MIGUEL MOUNTAIN | N32°41.78'/W116°56.18' |
| VPSSV | SAN VICENTE ISLAND | N32°55.53'/W116°55.00' |
| VPSTP | TORREY PINES GOLF COURSE | N32°54.17'/W117°14.68' |
| VPSVA | _____ | N33°11.48'/W117°16.38' |

SAN FRANCISCO SECTIONAL CHART

| | | |
|-------|-----------------|------------------------|
| VPKBG | KINGSBURY GRADE | N38°58.75'/W119°53.20' |
|-------|-----------------|------------------------|

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

| | | |
|-------|--------------------------|------------------------|
| VPALT | ALTAMONT PASS | N37°44.35'/W121°35.42' |
| VPANT | ANTIOCH BRIDGE | N38°01.45'/W121°45.02' |
| VPBBR | BENICIA BRIDGE | N38°02.50'/W122°07.45' |
| VPCL | CALAVERAS RESERVOIR | N37°28.16'/W121°48.93' |
| VPCBT | LAKE CHABOT | N37°43.68'/W122°06.94' |
| VPCOY | COYOTE HILLS | N37°32.50'/W122°05.06' |
| VPCQZ | CARQUINEZ BRIDGE | N38°03.66'/W122°13.52' |
| VPCRL | _____ | N37°11.00'/W121°41.06' |
| VPCRY | CRYSTAL SPRINGS CAUSEWAY | N37°30.56'/W122°21.10' |

WAYPOINT IDENT

VPCSH
VPDAM
VPDLR
VPDUB
VPEMB
VPGGF
VPGIL
VPHHH
VPKGO
VPLEX
VPMID
VPMOR
VPMUM
VPPAC
VPPRU
VPSAR
VPSLA
VPSTB
VPSUN
VPUTC
VPWAL
VPWAM
VPWFR

COLLOCATED VFR CHECKPOINT

CAL STATE UNIVERSITY
DEL VALLE DAM

DUBLIN
EMBASSY SUITES
GOLDEN GATE FIELDS
GILROY
HAMILTON
KGO
LEXINGTON RESERVOIR
MID-SPAN SAN MATEO BRIDGE
MORMON TEMPLE
NUMMI PLANT

PRUNEYARD
SARATOGA
SLAC/LINEAR ACCELERATOR
STINSON BEACH
SUNOL GOLF COURSE
U.T.C.
WALNUT CREEK

CEMENT PLANT

LOCATION

N37°39.52' /W122°03.52'
N37°36.91' /W121°44.78'
N37°07.00' /W121°47.06'
N37°42.06' /W121°55.36'
N37°26.05' /W121°53.83'
N37°53.07' /W122°18.71'
N37°01.37' /W121°33.99'
N38°03.58' /W122°30.66'
N37°31.58' /W122°06.10'
N37°11.66' /W121°59.18'
N37°36.28' /W122°11.81'
N37°48.46' /W122°11.95'
N37°29.56' /W121°56.58'
N37°38.00' /W122°32.07'
N37°17.33' /W121°56.01'
N37°15.26' /W122°02.33'
N37°24.75' /W122°14.35'
N37°54.45' /W122°40.41'
N37°34.85' /W121°53.23'
N37°13.93' /W121°41.35'
N37°53.78' /W122°04.30'
N37°30.28' /W122°10.00'
N37°30.88' /W122°12.26'

TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV
VPCNY
VPDAD
VPDFI
VPDUT
VPEAR
VPFFU
VPGPE
VPHUC
VPKER
VPLEV
VPLJA

DADE CITY

CLEARWATER BEACH

ST PETE BEACH

LAKE PARKER

N27°57.00' /W080°46.75'
N28°30.00' /W080°45.00'
N28°22.57' /W082°11.25'
N29°00.17' /W081°20.85'
N27°37.70' /W082°09.10'
N27°58.67' /W082°49.83'
N28°57.08' /W081°00.33'
N27°43.50' /W082°44.67'
N28°19.87' /W082°43.77'
N28°04.00' /W081°56.00'
N28°48.00' /W080°52.00'
N29°00.00' /W080°51.00'

WASHINGTON SECTIONAL CHART

VPACE
VPAXI
VPBRA
VPGCE
VPWZO

N38°07.82' /W076°48.75'
N38°34.57' /W076°20.38'
N36°13.75' /W076°08.08'
N36°03.90' /W076°36.42'
N36°00.87' /W075°40.07'

VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual. Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300 or 1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

ALABAMA

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|--|
| Brookley (Mobile Downtown) | 112.8/BFM | G | 313 | 1.68 | On runup area for rwy 14. VOR grand receiver checkpoint OTS indef. |
| Cairns AAF (Fort Rucker) | 111.2/OZR | G | 066 | 1.0 | On runup pad Twy F. |
| Enterprise Muni. | 116.6/EDN | A/2000 | 341 | 7.4 | Red/white twr. |
| Monroeville (Monroe Co Arpt) | 116.8/MVC | G | 196 | 0.6 | Rwy 03 runup area/turnaround pad. |
| Montgomery (Montgomery Rgnl/ Dannelly Field) | 112.1/MGM | G | 318 | 6.2 | On Twy C north of Twy A. |
| Talladega Muni | 108.8/TDG | A/2000 | 084 | 9.0 | Over center of segmented circle. |
| Crimson (Tuscaloosa Rgnl) | 117.8/LDK | G | 238 | 4.2 | On centerline of Twy midway between ramp and rwy. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---|-------|----------------------|---------|
| Birmingham-Shuttlesworth Intl | 110.0 | G | |
| Huntsville Intl-Carl T Jones Fld | 111.0 | G | |

FLORIDA

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|---|
| Cypress (Naples Muni) | 108.6/CYY | G | 121 | 0.6 | On runup area Rwy 32. |
| Crestview (Bob Sikes) | 115.9/CEW | A/1200 | 106 | 8.6 | Over rotating bcn. |
| Lakeland Linder Rgnl | 116.0/LAL | G | 038 | 0.5 | On NE end of Twy C. |
| | 116.0/LAL | G | 283 | 1.1 | On Twy A-1. |
| Melbourne Intl | 110.0/MLB | G | 184 | 0.6 | SW corner of arpt at intersection of Twy C and D. |
| Ocala Intl-Jim Taylor Fld | 113.7/OCF | G | 167 | 1.0 | On taxiway E adjacent to E9. |
| Orlando (Executive) | 112.2/ORL | G | 324 | .5 | On Twy E near AER 13. |
| | | G | 311 | .5 | On Twy H near AER 13. |
| Pahokee (Palm Beach Co Glades) | 115.4/PHK | A/1500 | 022 | 13 | Over radio twr at intersection of 2 canals. |
| Panama City-Bay Co Intl | 114.3/PFN | G | 190 | 0.5 | Main terminal ramp. |

VOR RECEIVER CHECK

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|---------------------------------------|
| | | G | 154 | 0.6 | Rwy 32 run-up/Twy G. |
| | | G | 208 | 0.6 | Rwy 5 run-up/Twy D. |
| St. Petersburg–Clearwater Intl | 116.4/PIE | G | 046 | 0.4 | On circle located NE end of Twy M. |
| Vero Beach Muni | 117.3/VRB | G | 111 | 4.4 | Runup area Rwy 29R. |
| | | G | 114 | 4 | Compass rose on taxiway E. |
| | | G | 116 | 3.6 | Runup area Rwy 11R. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---------------------------------|-------|----------------------|-----------------------|
| Daytona Beach Intl | 111.0 | G | |
| Jacksonville Intl | 111.0 | G | Unuseable E of Twy F. |
| Miami Intl | 112.0 | G | |
| Palm Beach Intl | 109.0 | G | |
| Tallahassee Rgnl | 111.0 | G | |
| Tampa Intl | 111.0 | G | |

GEORGIA

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|---|
| Athens (Madison Muni) | 109.6/AHN | A/2000 | 199 | 21 | Over center of rwy. |
| Athens (Athens/Ben Epps) | 109.6/AHN | G | 284 | 0.5 | Twy A2. |
| Atlanta (DeKalb–Peachtree) | 116.6/PDK | G | 004 | 0.5 | On runup area Rwy 20L. VOR ground checkpoint unavailable. |
| | | G | 218 | 0.5 | On runup area Rwy 02L and 02R. |
| Brunswick (Malcolm McKinnon) | 109.8/SSI | A/1050 | 029 | 7.2 | Over rotating bcn. |
| Columbus Metropolitan | 117.1/CSG | G | 146 | 7.1 | FBO ramp in front of ASOS equipment. |
| Dublin (W H 'Bud' Barron) | 113.1/DBN | G | 270 | 7.6 | Ramp. |
| Foothills (Toccoa RG Letourneau Fld) | 113.4/ODF | A/2000 | 179 | 6 | Over rotating bcn. |
| Hunter | 111.6/SVN | A/1500 | 090 | 15.5 | Over lighthouse. |
| Hunter AAF | 111.6/SVN | G | 271 | 1.2 | On Twy 6. |
| Lawson AAF | 111.4/LSF | G | 356 | .6 | On painted circle at taxiway intersection 580' NW of twr. |
| Macon | 114.2/MCN | A/2000 | 028 | 13.6 | Over oil tank. |
| | | A/2000 | 320 | 9.5 | Over dam. |
| Pecan (Southwest Georgia Rgnl) | 116.1/PZD | A/1000 | 145 | 9 | Over rotating bcn E side of arpt. |
| Rome (Richard B Russel) | 115.4/RMG | G | 348 | 11.5 | At intersection of twy 200' S of terminal building. VOR ground checkpoint unavailable. |
| Savannah | 112.7/SAV | A/1500 | 097 | 19.6 | Over red and white lighthouse. |
| Valdosta Rgnl | 114.8/OTK | G | 131 | 0.6 | On taxiway at apch end rwy 35. |
| Vienna (Crisp County–Cordele) | 116.5/VNA | A/1300 | 226 | 19 | Over center of NE/SW rwy. |
| Waycross–Ware Co | 110.2/AYS | A/1200 | 099 | 8 | Over fire twr W side arpt. |

VOR RECEIVER CHECK

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---|-------|----------------------|----------------|
| Atlanta (Hartsfield–Jackson Atlanta Intl) .. | 111.0 | G | |
| (Atlanta Muni) | 111.0 | G | VOT OTS indef. |
| Brunswick Golden Isles | 111.0 | G | |
| Savannah/Hilton Head Intl | 111.0 | G | |

KENTUCKY

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|--|------------|--|--------------------------------|-------------------------------|--|
| Central City (Muhlenberg Co) | 109.8/CCT | A/2500 | 153 | 10.6 | Over intersection of Rwy 23 and central taxiway. |
| Clarksville (Campbell AAF) | 110.6/CKV | G | 307 | 4.9 | On taxiway 6 center romeo helipad. |
| Clarksville (Hopkinsville–Christian Co) | 110.6/CKV | A/2000 | 345 | 13.5 | Over hangar. |
| Fort Knox (Godman AAF) | 109.6/FTK | A/2000 | 270 | 9.2 | W of Godman AAF over a 298 ft twr. |
| Frankfort (Capital City) | 109.4/FFT | G | 082 | .7 | Runup pad Rwy 24. |
| London (London–Corbin Arpt–Magee Fld) | 116.1/L0Z | G | 033 | 3.8 | On parking ramp taxiway entry. |
| Owensboro–Davies Co. | 108.6/OWB | G | 176 | .7 | On taxiway at apch end Rwy 36. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---|-------|----------------------|---------|
| Louisville Intl–Standiford Fld | 111.0 | G | |

VOR RECEIVER CHECK NORTH CAROLINA

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. | Azimuth from Fac. | Dist. from Fac. | Checkpoint Description |
|--|------------|----------------------|-------------------------|-----------------------|--|
| | | Gnd. AB/ALT | | | |
| Barretts Mountain (Hickory Rgnl) | 110.8/BZM | A/2200 | 229 | 10.2 | Over apch end Rwy 24. |
| Cofield (Tri-Co) | 114.6/CVI | A/4500 | 259 | 15.3 | Distance 20/25. |
| Fayetteville Rgnl/Grannis Fld | 108.8/FAY | G | 278 | 0.6 | On runup area Rwy 04. |
| Greensboro (Lexington Muni) | 116.2/GSO | A/2300 | 228 | 22 | Over rotating bcn atop W end of building. |
| Greensboro (Piedmont Triad Intl) | 116.2/GSO | G | 036 | 3.5 | On Twy M3. Checkpoint OTS indef. |
| Greensboro (Smith Reynolds) | 116.2/GSO | A/2000 | 297 | 13.5 | Over atct. |
| Kinston Rgnl Jetport At Stallings Fld | 109.6/ISO | G | 230 | 3.1 | Twy A between A4 and A5. |
| Raleigh-Durham Intl | 117.2/RDU | G | 244 | 0.85 | At end of taxiway to Rwy 05R. |
| Sugarloaf Mountain (Asheville Rgnl) | 112.2/SUG | A/3200 | 280 | 13.6 | Over atct. Airborne checkpoint unusable indef. |
| Tar River | 117.8/TYI | A/1500 | 260 | 5.8 | Over smoke stack at power house. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---|-------|----------------------|---------|
| Charlotte (Charlotte/Douglas Intl) | 112.0 | G | |
| Hickory Rgnl | 110.0 | G | |

SOUTH CAROLINA

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. | Azimuth from Fac. | Dist. from Fac. | Checkpoint Description |
|--|------------|----------------------|-------------------------|-----------------------|---------------------------------------|
| | | Gnd. AB/ALT | | | |
| Charleston AFB/Intl | 113.5/CHS | G | 225 | .7 | Runup pad Rwy 03. |
| | 113.5/CHS | G | 009 | .5 | Runup pad Rwy 21. |
| | 113.5/CHS | G | 337 | 1.2 | Runup pad Rwy 15. |
| | 113.5/CHS | G | 331 | 0.3 | Runup area for Rwy 33. |
| Electric City (Anderson Rgnl) | 108.6/ELW | G | 039 | 5.5 | On ramp in front of terminal bldg. |
| Grand Strand | 117.6/CRE | A/1100 | 238 | 6 | Over white water tank. |
| | 117.6/CRE | G | 213 | 0.7 | On runup pad Rwy 05. |
| Greenwood Co | 115.5/GRD | G | 250 | .7 | End of taxiway at Rwy 09 |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|----------------------------------|-------|----------------------|---------|
| Charleston AFB/Intl | 111.0 | G | |

VOR RECEIVER CHECK TENNESSEE

487

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|--|------------|--|--------------------------------|-------------------------------|--|
| Hinch Mountain (Crossville Memorial-Whitson Fld) | 117.6/HCH | A/2900 | 336 | 11 | Over metal hangar. |
| | 117.6/HCH | G | 335 | 11.5 | Runup area between taxiway and rwy at center of fld. |
| Holston Mountain (Tri-Cities Rgnl TN/VA) ... | 114.6/HMV | G | 286 | 13.7 | On ramp S of terminal building. |
| Jackson (McKellar-Sipes Rgnl) | 112.0/MKL | | 256 | 0.6 | At south end of ramp at fire station. |
| Nashville (Lebanon Muni) | 114.1/BNA | A/2000 | 082 | 18 | Over midfield. |
| Tulahoma Rgnl/Wm Northern Fld | | A/1800 | 003 | 5.0 | Over Normandy Dam. |

VOR TEST FACILITIES (VOT)

| Facility Name (Airport Name) | Freq. | Type VOT Facility | Remarks |
|---------------------------------------|-------|----------------------|---------|
| Knoxville (McGhee-Tyson) | 112.0 | G | |
| Memphis Intl | 111.0 | G | |
| Nashville Intl | 108.6 | G | |
| Smyrna | 110.2 | G | |

PUERTO RICO

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|------------------------|
| Borinquen (Rafael Hernandez) | 113.5/BQN | G | 271 | 2.2 | On apch end of Rwy 08. |

VIRGIN ISLANDS

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type Check Pt. Gnd. AB/ALT | Azimuth from Fac. Mag | Dist. from Fac. N.M. | Checkpoint Description |
|---|------------|--|--------------------------------|-------------------------------|---|
| Saint Thomas (Cyril E. King) | 108.6/STT | G | 118 | 3.5 | On taxiway North of Main ramp. VOR gnd checkpoint unusable. |

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The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations, Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Be in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

| LOCATION | DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC | MAXIMUM ALTITUDE | REMARKS |
|--|--|---------------------|---|
| ALABAMA | | | |
| Allen Army Heliport | 11 NM; 253° Wiregrass | 12,500 | 1 NM radius. SR-SS weekends and holidays. |
| (c) Bayou La Batre, Roy E.Ry Arpt..... | 12 NM; 217° Brookley | 12,500 | Daily SR-SS |
| Bessemer, Old Bessemer Arpt | 16 NM; 057° Brookwood | 10,000 | 1030-SS weekends |
| (c) Cullman, Folsom Fld Arpt | 36 NM; 001° Vulcan | 14,500 | 3 NM radius. SR-SS Sat-Sun, other times by NOTAM. |
| (c) Dothan, Hatch Army Heliport | 10.3 NM; 290° Wiregrass | 12,500 AGL | 1 NM SR-SS weekends and holidays. |
| (c) Elberta, Horak Arpt | 11 NM; 268° Saufley | 14,000 | Daily 0700-1/2 hour after SS. |
| Ellis Drop Zone | 15 NM; 220° Decatur | 1,500 | 0.4 NM radius. Occasional use |
| Eutaw Muni Arpt | 30 NM; 200° Crimson | 13,000 AGL | Weekends and holidays |
| Gadsden, Northeast Alabama Rgnl Arpt.. | 3 NM; 230° Gadsden | 14,000 | Weekends and holidays 0900-SS. |
| Harvest, Epps Arpk | 9 NM; 297° Rocket | 13,500 | Daily SR-SS |
| (c) Hazel Green | 7 NM; 355° Rocket | 14,000 | 7 NM radius. Daily SR-SS. Occasional night use. |
| Headland Muni Arpt | 8 NM; 070° Wiregrass | 15,000 | Weekdays 1200-SS; Sat-Sun, and holidays SR-SS |
| Jones Drop Zone | 6 NM; 276° Rocket | 1,500 | 0.25 NM radius. Occasional use |
| Kilby Drop Zone | 13 NM; 014° Montgomery | 1,500 | 0.2 NM radius. Occasional use |
| Moundville Arpt | 18 NM; 198° Tuscaloosa | 12,000 AGL | 5 NM radius. 0900-SS on weekends, occasionally weekdays by Notam. |
| Pinson, Industrial Park | 12 NM; 085° Vulcan | 10,500 | 0800-SS Sat-Sun, occasionally weekday and ngt use. |
| Prattville-Grouby Fld Arpt | 17 NM; 300° Montgomery | 2,000 | 10NM radius. For specific times call 334-953-7325. |
| Redstone Drop Zone | 9 NM; 220° Rocket | 1,500 | 0.2 NM radius. Occasional use |
| Renda Drop Zone | 8 NM; 234° Talledega | 1,500 | 0.25 NM radius. Occasional use |
| Tac Runkle Drop Zone | 19 NM; 280° Cairns | 3,500 AGL | Occasional use |
| Tommy Drop Zone | 17 NM; 235° Montgomery | 1,500 | 0.2 NM radius. Occasional use |
| (c) Tuskegee, Moton Fld Muni | 2 NM; 198° Tuskegee | 12,500 | 3 NM radius. Occasionally on weekends. |
| Vincent | 37 NM; 130° Vulcan | 10,000 | 5 NM radius. Weekends 0900-SS. |
| Warrior | 11 NM; 350° Vulcan | 12,500 | Daily SR-SS |
| Weaver, McIlinn Arpt | 15 NM; 047° Talladega | 12,500 | 1 NM radius. Daily SR-SS, occasional night use. |
| (c) Wetumpka Muni | 18 NM; 356° Montgomery | 10,000 | Daily SR-SS |
| FLORIDA | | | |
| Arcadia Muni | 23 NM; 311° Labelle | 15,000 | 5 NM radius. SR-SS daily, occasional ngt use. |
| Avon Park Executive Arpt | 30 NM; 138° Lakeland | 4,000 | 4 NM radius. Daily SR-SS |
| Brandon, Sod Farm | 16 NM; 255° Lakeland | 15,000 | 0830-1830 weekends |
| Chassahowitzka Drop Zone | 38 NM; 010° St. Petersburg | 4,000 | 0.25 NM radius. Occasional use |

| LOCATION | DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC | MAXIMUM ALTITUDE | REMARKS |
|--|---|------------------|---|
| (c) Clewiston, Airglades Arpt | 19 NM; 097° LaBelle | 13,500 | 1 NM radius. Daily SR-SS |
| (c) Coleman, Freeflight Arpt | 24 NM; 155° Ocala | 15,000 | 3 NM radius. Daily SR-SS. |
| (c) Deland Muni-Sidney H Taylor Fld | 17 NM; 210° Ormond Beach | 15,000 | 1 NM radius. SR-SS Sat, Sun, occasionally weekdays. |
| Englewood, Buchan Arpt | 27 NM; 158° Sarasota | 15,000 AGL | 2 NM radius. Sunday 1000-SS |
| Florabama Drop Zone | 16 NM; 216° Saufley | 14,000 | 2 NM radius. Fri-Sun 0830-SS. |
| (c) Homestead General Aviation | 22 NM; 218° Dolphin | 15,000 | 5 NM radius. 24 hrs daily. |
| Jacksonville, Herlong Arpt | 15 NM; 255° Craig | 15,000 | 1 NM radius. Daily SR-SS with prior notification to JAX APP CON. |
| Key West | 1 NM; 095° Key West | 7,000 | 0.2 NM radius. Occasional use. |
| (c) La Belle, Sundance Farms Arpt | 5.4 NM; 245° La Belle | 12,500 | 1 NM radius. Daily SR-SS. |
| (c) Lake Wales Muni | 21 NM; 104° Lakeland | 18,000 | 7 NM radius, 24 hrs daily. Miami Center 127.2 |
| (c) MacDill AFB | 11 NM; 110° St. Petersburg | 10,000 | 0600-1100 Sun. Over Rwy 31 |
| (c) Myakka City | 18 NM; 097° Sarasota | 12,500 | 5 NM radius, 24 hrs daily |
| (c) New Smyrna Beach, Massey Ranch Airpark | 22 NM; 150° Ormond Beach | 15,000 | 1 NM radius SR-SS weekends, occasionally weekdays. |
| (c) Palatka Muni-Lt. Kay Larkin Fld | 36 NM; 079° Gainesville | 12,500 | 3 NM radius. Daily, SR-SS |
| (c) Pahokee, Palm Beach Co Glades Arpt | at Pahokee | 17,500 | 3 NM radius, 0800-1800 daily. |
| (c) Quincy Muni Arpt | 10 NM; 288° Seminole | 15,000 | Daily SR-SS |
| (c) St. Augustine | 35 NM; 159° Craig | 12,500 | Sat-Sun occasionally weekdays |
| (c) Sebastian Muni | 8 NM; 001° Vero Beach | 14,000 | 2 NM radius. Daily SR-SS. |
| (c) Shell Creek Airpark | 27.5 NM; 347° Lee County | 13,000 | 1 NM radius. SR-SS weekends, holidays. |
| (c) Skydive Live Arpt | 24 NM; 075° Crestview | 13,000 | 3 NM radius. SR-SS Sat-Sun, holidays and other times by NOTAM. |
| (c) Sugar Loaf Shores Arpt | 13 NM; 071° Key West | 14,000 | 2 NM radius. SR-SS. |
| Sun City | 22 NM; 123° St. Petersburg | 12,500 | |
| (c) Titusville, Arthur Dunn Air Park | 33 NM; 341° Melbourne | 13,500 | 1 NM radius, SR-SS daily. |
| (c) Umatilla Muni Arpt | 29 NM; 327° Orlando | 13,000 AGL | 2 NM radius. SR-SS. Occasional night use. |
| Wakulla Co Arpt | 35 NM; 180° Seminole | 13,500 | 3 NM radius. SR-SS weekends occasionally weekdays. |
| (c) Williston Muni Arpt | 22 NM; 210° Gators | 11,000 | Tallahassee Rgnl Tower 135.8 |
| (c) Zephyrhills Muni | 16 NM; 330° Lakeland | 20,000 | 2.5 NM radius. SR-SS Fri, Sat and Sun. Jacksonville Center 118.6 |
| GEORGIA | | | |
| Bunker Hill Drop Zone | 10 NM; 233° Harris | 8,000 | 1 NM radius. SR-1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft. |
| (c) Cedartown, Polk Co Arpt-Cornelius Moore Fld | 9 NM; 188° Rome | 15,000 | 3 NM radius. SR-SS daily, occasionally nights. |
| (c) Claxton-Evans Co Arpt | 33.6 NM; 276° Savannah | 7,500 | 0900-SS Sat and Sun |
| (c) Dahlonga, Lumpkin County Arpt, Wimpy Drop Zone | 23 NM; 193° Harris | 15,000 | 1 NM radius. SR to 1 hr after SS daily irregular intervals. Mass military jumps from multiple acft. |
| Dahlonga Highway 76 Drop Zone | 11 NM; 231° Harris | 3,000 | Occasional use. |
| Fort Benning, Box Spring Drop Zone | 24.5 NM; 116° Columbus | 3,000 | Occasional use. |
| Fort Benning, Eelbeck Drop Zone | 17.5 NM; 131° Columbus | 3,000 | Occasional use. |
| (c) Fort Benning, EuBanks Drop Zone | 16 NM; 171° Columbus | 12,500 | Daily 0500-1900 |
| (c) Fort Benning, Fryar Field Drop Zone | 22.5 NM; 168° Columbus | 13,000 | 0.5 NM radius, Continuous. |
| (c) Fort Benning, Gardner Drop Zone | 17 NM; 171° Columbus | 12,500 | Daily 0500-1900 |
| Fort Benning, Lawson AAF (Fort Benning) | 1.8 NM; 046° Lawson | 12,500 | 1 NM radius. Daily SR-SS |
| Fort Benning, Lae Drop Zone | 21 NM; 166° Columbus | 3,000 | Occasional use |
| Fort Benning, Ledo Drop Zone | 14 NM; 090° Lawson | 3,000 | Occasional use |
| Fort Benning, McKenna Drop Zone | 10 NM; 080° Columbus | 3,000 | Occasional use |
| (c) Fort Benning, York Drop Zone | 16 NM; 172° Columbus | 12,500 | Daily 0500-1900 |
| Fort Valley, Miami Valley Farms Arpt | 12 NM; 220° Macon | 14,000 | 1 NM radius, Daily 0900-SS |
| Locust Grove, Mallards Landing Arpt | 17.5 NM; 118° Atlanta | 13,500 | Sat, Sun and holidays SR-SS. Occasional ngt jumps |
| (c) Monroe-Walton Co Arpt | 22 NM; 242° Athens | 13,500 | 5 NM radius. Daily 0800-2100. |
| Plantation Airpark, Moore Drop Zone | 36 NM; 332° Savannah | 1,500 AGL | 1 NM radius. Occasional use. Mass Military jumps from multiple acft. |
| (c) Rome, Richard B. Russell Arpt | 11.3 NM; 349° Rome | 15,000 | 5 NM radius. SR-SS Weekends. |
| St Marys Arpt | 19 NM; 203° Brunswick | 12,000 | 2 NM radius. Daily 0700-1859. |

| LOCATION | DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC | MAXIMUM ALTITUDE | REMARKS |
|--------------------------------------|--|---------------------|--|
| Thomaston-Upson Co | 35 NM; 296° Macon | 14,500 | 1 NM radius. Sat-Sun occasionally weekdays. |
| Tifton, Henry Tift Myers, Arpt | 1 NM; 090° Tift Myers | 15,000 | 5 NM radius. Daily 0700-1800. |
| Waycross-Ware Co Arpt | 8 NM; 100° Waycross | 12,500 | 1 NM radius. Daily 1000-1600 |
| Wilscott Drop Zone | 14 NM; 245° Harris | 8,000 | 1 NM radius. SR to 1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft. |

KENTUCKY

| | | | |
|--|---------------------------------|--------|---|
| Elizabethtown, Addington Fld | 12 NM; 285° New Hope | 11,000 | 3 NM radius, SR-SS Weekends and noon-SS weekdays. |
| Elkton, Standard Fld | 16 NM; 045° Clarksville | 12,000 | 5 NM radius. Continuous. |
| (c) Flemingsburg, Fleming Mason Arpt .. | 27 NM; 103° Falmouth | 12,500 | 1 NM radius. SR-SS Sat-Sun and holidays. |
| Ft. Campbell, Bastogne Drop Zone | 8 NM; 274° Clarksville | 3,000 | 0600-2330 Mon-Fri and occasional weekends. Military use. |
| Ft. Campbell, Corregidor Drop Zone | 11 NM; 270° Clarksville | 3,000 | 0600-2330 Mon-Fri and occasional weekends. Military use. |
| Ft. Campbell, Los Banos Drop Zone | 10 NM; 270° Clarksville | 3,000 | 0600-2330 Mon-Fri and occasional weekends. Military use. |
| Ft. Campbell, Suckchon Drop Zone | 10 NM; 270° Clarksville | 3,000 | 0600-2330 Mon-Fri and occasional weekends. Military use. |
| Glasgow Muni Arpt | 24 NM; 073° Bowling Green | 8,000 | 5 mi radius. SR-SS weekends and holidays |
| (c) Greenville, Muhlenberg Co Arpt | 10 NM; 149° Central City | 13,500 | 5 mi. radius. Daily SR-SS. |
| | 7 NM; 149° Central City | 2,000 | 2 NM radius. Intermittent. Military use. |
| (c) Hopkinsville-Christian Co | 14 NM; 352° Clarksville | 14,500 | 3 NM radius, 0900-1600 Tue-Fri; occasional weekends. |
| Owensboro, Windy Hollow Drag Strip | 6 NM; 205° Owensboro | 8,000 | 2 NM radius. 0800-SS Sun, holidays occasionally other times |

NORTH CAROLINA

| | | | |
|--|----------------------------------|------------|--|
| Erwin Arpt | 22 NM; 030° Fayetteville | 4,500 | 1 NM radius. Sat & Sun afternoons |
| (c) Fayetteville, Southern Comforts Arpt ... | 9 NM; 220 Fayetteville | 14,000 | 3 NM radius. Fri-Mon and holidays SR-SS. |
| Greensboro, Southeast Greensboro Arpt | 18 NM; 115° Greensboro | 12,000 | 1 NM radius. 0800-2000 Sat and Sun. |
| | 8 NM; 339° Liberty | 11,000 | 3 NM radius. 0800-1600 Fri-Sun. |
| Greenville | 22 NM; 040° Kinston | 15,500 | Daily SR-SS. |
| (c) Jonesville, Swan Creek Arpt | 27 NM; Barretts Mountain | 15,000 | 3 NM radius. SR-SS daily, occasional night. |
| (c) Louisburg, North Raleigh | 22 NM; 060° Raleigh-Durham | 15,500 | 30 min before SR-30 min after SS daily. Occasional ngt. |
| (c) Luzon Drop Zone | 13 NM; 152° Sandhills | 17,500 | 0600-1900 Daily. |
| Mackall AAF | 11 NM; 150° Sandhills | 17,500 | Continuous. |
| (c) Maxton, Laurinburg-Maxton Arpt | 26 NM; 250° Fayetteville | 13,500 | 0800-1700 Mon-Fri. |
| Mebane, Kimrey Arpt | 29 NM; 296° Raleigh/Durham | 12,000 | 1 NM radius. 0900-SS Weekends; occasionally other times. |
| Pinebluff | 8.75 NM; 143° Sandhills | 12,500 | Sat, Sun and holidays. Weekdays on request. |
| (c) PK Airpark | 17 NM; 280° Fayetteville | 12,500 AGL | Continuous. |
| (c) Rocky Mount | 9.5 NM; 285° Tar River | 12,500 | Sat, Sun and holidays 0900-SS. |
| Southport, Brunswick Co. | 27.2 NM; 209° Wilmington | 12,000 | 3 NM radius. 0800-2100 daily. |
| Thomasville, Fairgrove Arpt | 13 NM; 201° Greensboro | 14,000 | Weekends and holidays. |
| (c) Wallace, Henderson Fld | 23 NM; 351° Wilmington | 15,000 AGL | 3 NM radius. Sat-Sun SR-SS. |
| Washington, Warrenn Fld | 27.6 NM; 069° Kinston | 14,999 AGL | 2 NM radius. SR-SS daily, occasional night use. |

SOUTH CAROLINA

| | | | |
|------------------------------------|---------------------------------|------------|---|
| Beaufort County Arpt | 38.25 NM; 067° Savannah | 10,000 | 1.0 NM radius. Sat, Sun and holidays SR-SS. |
| (c) Chester Catawa Rgnl Arpt | 16.5 NM; 223° Fort Mill | 13,500 AGL | 1 NM radius. Daily 0800-SS. |
| Clemson- Oconee Co. Arpt | 14 NM; 343° Electric City | 12,000 | Daily SR-SS. |
| Columbia, Fort Jackson | 10 NM; 020° Columbia | 10,000 | 1 NM radius. Weekends, occasional weekdays. |

| LOCATION | DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC | MAXIMUM ALTITUDE | REMARKS |
|---|--|---------------------|---|
| (c) Green Sea Arpt..... | 25 NM; 330° Grand Strand..... | 15,000 | 3 NM radius. Weekends and occasional weekdays SR-SS. |
| (c) Loris, Twin City Arpt..... | 15 NM; 340° Grand Strand..... | 12,000 | Weekends, holidays 0800-SS. |
| (c) North AF Aux Arpt | 15 NM; 186° Columbia..... | 2,000 | ½ NM radius. Mon-Fri 0800-2200. Military personnel and heavy equipment. |
| St George Arpt..... | 17 NM; 192° Vance..... | 17,900 | SR-1 hr after SS. |
| Timmonsville, Huggins Arpt | 14 NM; 247° Florence | 12,500 | Daily SR-SS. |
| (c) Walterboro, Lowcountry Rgnl Arpt ... | 30.5 NM; 275° Charleston | 12,500 AGL | Weekends. |
| TENNESSEE | | | |
| Campbell Co. | 28.9 NM; 336° Volunteer..... | 13,500 | 2 NM radius. 0800-one hr byd SS. |
| Chattanooga | 13 NM; 087° Choo Choo | 10,000 | Continuous. |
| Clarksville, Outlaw Fld..... | Over Clarksville..... | 14,000 AGL | 4 NM radius. Daily SR-SS, occasional ngts. |
| Crossville Meml-Whitson Fld..... | 11.5 NM; 335° Hitch Mountain .. | 14,500 | 1 NM radius. Daily SR-1 hr after SS, occasional nights. |
| (c) Dunlap | 30 NM; 335° Choo Choo | 9,000 | 5 NM radius. SR-SS Daily. |
| Fort Campbell, Son Drop Zone..... | 4.1 NM; 302° Clarksville..... | 12,500 | Daily. |
| Livingston Arpt | 13 NM; 212° Livingston | 12,500 | Weekends. |
| (c) Paris, Henry Co. | 44.3 NM; 357° Jacks Creek | 13,500 | 5 NM radius. Daily SR-SS. |
| Sevierville, Seymour Airpark..... | 10 NM; 133° Volunteer..... | 13,500 | 3 NM radius. Weekends SR-SS. |
| (c) Somerville, Wings | 26 NM; 210° McKellar..... | 14,000 AGL | 2 NM radius. Weekends 0700-SS. Occasional ngt jumps. |
| Tullahoma Rgnl Arpt/WM Northern Fld ... | 14.1 NM; 139° Shelbyville | 15,000 | 5 NM radius. SR-SS primarily weekends with occasional nights. |
| Whifferrill..... | 25 NM; 303° Nashville | 11,500 | 2 NM radius. Weekends SR-SS. |
| PUERTO RICO | | | |
| (c) Arecibo, Antonio/Nery/Juarbe Pol Arpt | 25 NM; 105° Borinquen | 12,500 | 0600-1800 weekends & holidays. |
| (c) Humacao Arpt | 20.9 NM; 159° San Juan | 15,000 | 2.5 NM radius. Weekends SR-SS, occasionally holiday SR-SS. |
| VIRGIN ISLANDS | | | |
| St. Croix, Ordinance Drop Zone..... | | 2,000 | 0700-1400 Mon-Fri. 5 NM radius from 17°49'N 064°52'W. |
| St. Thomas, Cyril E. King No. 1 | 6.5 NM; 118° St. Thomas | 15,000 | |
| St. Thomas, Cyril E. King No. 2 | 10.4 NM; 110° St. Thomas | 15,000 | |

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The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

ATLANTA SECTIONAL

84th Edition, 11 Mar 2010

OBSTRUCTIONS

8 Apr 2010 Add obst 832' MSL (290' AGL) UC, 32°58'30"N, 86°37'02"W.

Add obst 926' MSL (409' AGL) UC, 33°53'37"N, 86°43'02"W.

Add obst 1007' MSL (492' AGL) UC, 32°58'56"N, 86°51'02"W.

Add obst 1048' MSL (423' AGL) UC, 34°45'28"N, 87°30'06"W.

3 Jun 2010 Add obst 793' MSL (310' AGL) UC, 33°22'26"N, 87°41'29"W.

Add obst 856' MSL (260' AGL) UC, 32°42'56"N, 86°39'16"W.

Add obst 1378' MSL (210' AGL) UC, 36°07'48"N, 83°28'33"W.

Add obst 834' MSL (310' AGL) UC, 33°49'43"N, 87°22'17"W.

Add obst 985' MSL (260' AGL) UC, 32°51'52"N, 86°05'30"W.

Add obst 1261' MSL (300' AGL) UC, 35°50'20"N, 87°00'44"W.

AIRPORTS

8 Apr 2010 Change RP 8 to RP 28 at COVINGTON arpt, 33°37'56"N, 83°50'50"W.

3 Jun 2010 Change RP 8 to RP 28 at COVINGTON MUNI arpt, 33°37'50"N, 83°50'40"W.

Add RP 23 to BARNWELL RGNL 33°15'30"N, 81°23'20"W.

NAVAIDS

8 Apr 2010 – 3 Jun 2010 No Major Changes.

AIRSPACE

8 Apr 2010 Change BIRMINGHAM Class C freq from 385.6 to 256.8

3 Jun 2010 No Major Changes.

SPECIAL USE AIRSPACE

8 Apr 2010 – 3 Jun 2010 No Major Changes.

MILITARY TRAINING ROUTES

8 Apr 2010 – 3 Jun 2010 No Major Changes.

MISCELLANEOUS

8 Apr 2010 – 3 Jun 2010 No Major Changes.

ATLANTA TERMINAL AREA CHART

81st Edition, 11 Mar 2010

OBSTRUCTIONS

8 Apr 2010 – 3 Jun 2010 No Major Changes.

AIRPORTS

8 Apr 2010 – 3 Jun 2010 No Major Changes.

NAVAIDS

8 Apr 2010 – 3 Jun 2010 No Major Changes.

AIRSPACE

8 Apr 2010 – 3 Jun 2010 No Major Changes.

SPECIAL USE AIRSPACE

8 Apr 2010 – 3 Jun 2010 No Major Changes.

MILITARY TRAINING ROUTES

8 Apr 2010 – 3 Jun 2010 No Major Changes.

MISCELLANEOUS

8 Apr 2010 – 3 Jun 2010 No Major Changes.

CG-21 WORLD AERONAUTICAL CHART**40th Edition, 24 Sep 2009****OBSTRUCTIONS****22 Oct 2009** Add obst 1348' MSL (600' AGL), 34°15'06"N, 84°59'12"W.

Change obst from 312' MSL to 1312' MSL, 33°35'33"N, 083°58'31"W.

17 Dec 2009 – 3 Jun 2010 No Major Changes.**AIRPORTS****22 Oct 2009** Change elevation from 191' to 1911' at Blairsville arpt, 34°51'16"N, 083°59'50"W.

Change runway orientation to 01/19 at Halifax-Northhampton Co Rgnl arpt, 36°19'47"N, 077°38'07"W.

17 Dec 2009 – 3 Jun 2010 No Major Changes.**NAVAIDS****22 Oct 2009 – 3 Jun 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 3 Jun 2010** No Major Changes.

CHARLOTTE SECTIONAL
87th Edition, 14 Jan 2010**OBSTRUCTIONS****11 Feb 2010** No Major Changes.**8 Apr 2010** Add obst 371' MSL (310' AGL) UC, 36°15'27"N, 77°30'00"W.

Add obst 339' MSL (310' AGL) UC, 34°26'57"N, 78°13'23"W.

Add obst 381' MSL (300' AGL) UC, 34°04'47"N, 78°48'40"W.

Add obst 1247' MSL (1168' AGL), 35°33'11"N, 77°36'05"W.

3 Jun 2010 No Major Changes.**AIRPORTS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**3 Jun 2010** Delete CAG Farms arpt, 35°28'10"N, 78°39'16"W.

Add RP 23 to BARNWELL arpt, 33°15'29"N, 81°23'17"W.

Change AWOS-3 freq 124.795 to 124.775 at WILLIAMSBURG RGNL arpt, 33°43'07"N, 79°51'24"W.

NAVAIDS**11 Feb 2010 – 8 Apr 2010** No Major Changes.**3 Jun 2010** Delete JNALL NDB, 35°36'25"N, 078°21'16"W.**AIRSPACE****11 Feb 2010** Revise Atlantic Low Offshore Airspace Area: That airspace extending upward from 5,500 feet MSL bounded on the east by the Moncton FIR and the New York Oceanic CTA/FIR, on the south by 34°00'44"N, on the west and north by a line 12 miles from and parallel to the U.S. shoreline, excluding Federal airways and the East Coast Low offshore airspace area; and that airspace extending upward from 1,700 feet MSL within the portion of the Atlantic Low offshore airspace area that lies between a line drawn 12 miles from and parallel to the U.S. shoreline and a line drawn 20 miles from and parallel to the U.S. shoreline.

Revise South Florida Low Offshore Airspace Area: That airspace extending upward from 2,700 feet MSL bounded on the west by the Houston Oceanic CTA/FIR; bounded on the north from west to east by the Jacksonville Air Route Traffic Control Center boundary, a line 12 miles from and parallel to the U.S. shoreline and lat. 34°00'00"N., bounded on the east by the New York Oceanic CTA/FIR and the San Juan Oceanic CTA/FIR; bounded on the south from east to west by the Santo Domingo FIR, the Port-Au-Prince CTA/FIR and the Havana CTA/FIR; excluding the Grand Bahama TCA and the Nassau TCA; and that airspace extending upward from 1,300 feet MSL within the portion of the South Florida Low that lies between a line drawn 12 miles from and parallel to the U.S. shoreline and a line drawn 20 miles from and parallel to the U.S. shoreline, along the full length of the South Florida Low and extending around the Marquesas Keys, but excluding the Dry Tortugas Islands.

Revise Albemarle, NC Class D: That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 037° bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory.

8 Apr 2010 No Major Changes.**3 Jun 2010** Change RALEIGH CLASS C freq from 380.05 to 353.675, 35°52'40"N, 78°47'15"W.**SPECIAL USE AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010** No Major Changes.**8 Apr 2010** Change MEF 0⁹ to 0⁴ in quadrant 35°30'–36°00'N, 77°30'–78°00'W.**3 Jun 2010** Change MEF 0⁴ to 1⁴ in quadrant 35°30'–36°00'N, 77°30'–78°00'W.

CHARLOTTE TERMINAL AREA CHART**42nd Edition, 14 Jan 2010****OBSTRUCTIONS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**AIRPORTS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**NAVAIDS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**AIRSPACE**

11 Feb 2010 Revise Albemarle, NC Class D: That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 037 ° bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory.

8 Apr 2010 – 3 Jun 2010 No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 3 Jun 2010** No Major Changes.

CINCINNATI SECTIONAL

83rd Edition, 17 Dec 2009

OBSTRUCTIONS**17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 1129' MSL (300'AGL)UC, 38°29'49"N, 82°51'18"W.

Add obst 1276' MSL (300'AGL)UC, 38°24'01"N, 83°09'38"W.

Add obst 1097' MSL (275'AGL)UC, 39°03'46"N, 84°59'04"W.

Add obst 1522' MSL (258'AGL)UC, 39°39'44"N, 80°04'00"W.

Add obst 1580' MSL (289'AGL)UC, 39°43'33"N, 80°12'37"W.

Add obst 2642' MSL (304'AGL)UC, 38°24'24"N, 80°47'10"W.

Add windmill farm. 4411' MSL UC, 38°05'27"N, 80°25'48"W.

8 Apr 2010 Add obst 1566' MSL (204'AGL)UC, 37°39'55"N, 83°57'21"W.

Add obst 1142' MSL (295'AGL)UC, 38°45'58"N, 84°53'45"W.

Add obst 1385' MSL (279'AGL)UC, 36°10'15"N, 84°02'17"W.

Add obst 1578' MSL (235'AGL)UC, 36°52'32"N, 84°12'59"W.

Add obst 1409' MSL (255'AGL)UC, 36°46'20"N, 84°45'59"W.

Add obst 1170' MSL (280'AGL)UC, 38°15'12"N, 84°37'40"W.

Add obst 1199' MSL (299'AGL)UC, 38°16'32"N, 84°57'02"W.

Add obst 1734' MSL (314'AGL)UC, 37°09'53"N, 83°23'10"W.

Add obst 1477' MSL (255'AGL)UC, 36°55'42"N, 84°14'33"W.

Add obst 786' MSL (310'AGL)UC, 36°14'41"N, 78°19'50"W.

Add obst 2210' MSL (260'AGL)UC, 36°23'13"N, 84°20'11"W.

Add obst 4716' MSL (389'AGL)UC, 38°04'46"N, 80°32'37"W.

Add obst 1695' MSL (315'AGL)UC, 37°10'09"N, 83°31'54"W.

Add obst 1792' MSL (306'AGL)UC, 37°36'25"N, 83°59'58"W.

Add obst 1138' MSL (300'AGL)UC, 38°20'21"N, 82°47'08"W.

Add obst 1280' MSL (258'AGL)UC, 38°51'21"N, 82°55'52"W.

Add obst 1008' MSL (216'AGL)UC, 39°20'01"N, 84°46'34"W.

Add obst 2610' MSL (415'AGL)UC, 38°49'04"N, 79°51'29"W.

Add obst 1612' MSL (311'AGL)UC, 38°09'58"N, 81°12'13"W.

Add obst 2509' MSL (315'AGL)UC, 39°02'16"N, 79°56'33"W.

Add obst 2434' MSL (315'AGL)UC, 39°00'23"N, 79°48'52"W.

Add obst 2422' MSL (289'AGL)UC, 39°18'45"N, 79°41'09"W.

Add obst 4726' MSL (389'AGL)UC, 38°03'56"N, 80°29'48"W.

Add obst 1917' MSL (290'AGL)UC, 39°24'46"N, 80°03'09"W.

Add obst 2314' MSL (260'AGL)UC, 37°46'35"N, 81°22'05"W.

Add obst 1872' MSL (408'AGL)UC, 37°41'43"N, 81°38'23"W.

Add obst 1433' MSL (340'AGL)UC, 38°18'44"N, 82°13'42"W.

Add obst 1798' MSL (360'AGL)UC, 39°29'40"N, 80°23'16"W.

Add obst 3352' MSL (315'AGL)UC, 38°21'38"N, 80°38'51"W.

Add obst 1772' MSL (315'AGL)UC, 39°35'16"N, 80°15'02"W.

Add obst 1318' MSL (300'AGL)UC, 38°13'32"N, 82°27'05"W.

Add obst 4248' MSL (320'AGL)UC, 37°46'25"N, 80°42'19"W.

Add obst 1498' MSL (289'AGL)UC, 39°42'45"N, 80°10'06"W.

Add obst 2189' MSL (289'AGL)UC, 39°19'20"N, 79°49'37"W.

Add obst 2905' MSL (360'AGL)UC, 38°09'10"N, 81°06'53"W.

Change windmill farm highest MSL from 4411' MSL to 4726' MSL (389'AGL)UC, 38°03'46"N, 80°30'08"W.

3 Jun 2010 Add obst 1147' MSL (281'AGL)UC, 38°06'40"N, 81°50'47"W.

Add obst 2329' MSL (256'AGL)UC, 38°06'29"N, 81°22'20"W.

Add obst 2904' MSL (311'AGL)UC, 38°03'37"N, 80°56'59"W.

Add obst 3159' MSL (230'AGL)UC, 37°41'44"N, 81°02'45"W.

Add obst 934' MSL (435'AGL)UC, 39°26'04"N, 77°58'33"W.

Add obst 1378' MSL (210'AGL)UC, 36°07'48"N, 83°28'33"W.

Add obst 2288' MSL (298'AGL)UC, 37°33'32"N, 80°47'10"W.

Add obst 840' MSL (210'AGL)UC, 38°47'06"N, 82°03'14"W.

Add obst 1432' MSL (310'AGL)UC, 38°32'59"N, 81°18'43"W.

Add obst 1117' MSL (308'AGL)UC, 38°22'48"N, 82°22'19"W.

Add obst 2427' MSL (480'AGL)UC, 39°06'54"N, 79°59'35"W.

Add obst 1288' MSL (315'AGL)UC, 39°31'10"N, 78°47'41"W.

Add obst 1238' MSL (260'AGL)UC, 38°18'26"N, 81°39'19"W.

Add obst 3342' MSL (250'AGL)UC, 39°22'57"N, 79°04'43"W.

Add obst 1357' MSL (250'AGL)UC, 39°56'02"N, 78°01'01"W.

Add obst 1266' MSL (308'AGL)UC, 38°15'55"N, 81°46'33"W.

Add obst 2652' MSL (245'AGL)UC, 37°35'37"N, 80°55'22"W.

Add windmill farm. 3226' is highest MSL 40°01'35"N, 78°48'07"W.

AIRPORTS**17 Dec 2009** No Major Changes.**11 Feb 2010** Delete KNORE arpt, 38°50'15"N, 82°50'05"W.

Delete ACTION arpt, 39°07'57"N, 84°49'43"W.

8 Apr 2010 No Major Changes.**3 Jun 2010** Change CTAF 122.8 to 122.9 at CYNTHIANA-HARRISON arpt, 38°21'58"N, 84°17'00"W.**CONTINUED ON NEXT PAGE**

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NAVAIDS**17 Dec 2009 – 3 Jun 2010** No Major Changes.**AIRSPACE****17 Dec 2009** No Major Changes.**11 Feb 2010** Add MOUNTAIN CITY, TN Class E. That airspace extending upward from 700 feet above the surface within a 6.7-mile radius of the Johnson County Airport and within 1.3 miles each side of the 065° bearing from the airport extending from the 6.7-mile radius to 10.9 miles northeast of the airport.**8 Apr 2010 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Change MEF 4° to 4° in quadrant 38°00'–38°30'N, 80°30'–81°00'W.**3 Jun 2010** No Major Changes.**CINCINNATI TERMINAL AREA CHART****22nd Edition, 17 Dec 2009****OBSTRUCTIONS****11 Feb 2010** Add obst 1097' MSL (275' AGL) UC, 39°03'46"N, 84°59'04"W.**8 Apr 2010** Add obst 1142' MSL (295' AGL) UC, 38°45'58"N, 84°53'45"W.

Add obst 1008' MSL (216' AGL) UC, 39°20'01"N, 84°46'34"W.

3 Jun 2010 No Major Changes.**AIRPORTS****11 Feb 2010** Delete ACTION arpt, 39°07'57"N, 84°49'43"W.**8 Apr 2010 – 3 Jun 2010** No Major Changes.**NAVAIDS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**IFR GULF OF MEXICO CENTRAL****1st Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009 – 3 Jun 2010** No Major Changes.**AIRPORTS****17 Dec 2009 – 3 Jun 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 3 Jun 2010** No Major Changes.**AIRSPACE****17 Dec 2009 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete BUEKR Waypoint N 29°45' W 91°50'.**8 Apr 2010 – 3 Jun 2010** No Major Changes.

IFR GULF OF MEXICO WEST**1st Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009 – 3 Jun 2010** No Major Changes.**AIRPORTS****17 Dec 2009 – 3 Jun 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Delete BRENNHAM (BNH) NDB 30°13'20.6"N, 96°22'24.6"W.**3 Jun 2010** No Major Changes.**AIRSPACE****17 Dec 2009 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Change Name SAITA to SARITA at HOUSTON RCAG 27°13'16"N, 97°47'56"W.**3 Jun 2010** No Major Changes.

JACKSONVILLE SECTIONAL**85th Edition, 11 Feb 2010****OBSTRUCTIONS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**AIRPORTS****11 Feb 2010** No Major Changes.**8 Apr 2010** Add FLAGLER CO ATCT 118.95, 29°28'03"N, 81°12'23"W.**3 Jun 2010** LIBERTY CO arpt abandoned, 31°47'05"N, 81°38'28"W.**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**3 Jun 2010** Shutdown KISSIMMEE NDB, 28°17'22"N, 81°26'03"W.

Delete GEIGER LAKE NDB, 28°35'35"N, 80°48'59"W.

AIRSPACE**11 Feb 2010 – 8 Apr 2010** No Major Changes.**3 Jun 2010** Add QUITMAN, GA. Class E: That airspace extending upward from 700 feet above the surface within a 6.6-mile radius of the Quitman Brooks County Airport.**SPECIAL USE AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 3 Jun 2010** No Major Changes.

MEMPHIS SECTIONAL
84th Edition, 8 Apr 2010**OBSTRUCTIONS****8 Apr 2010** No Major Changes.**3 Jun 2010** Add obst 777' MSL (311' AGL) UC, 33°17'12"N, 89°24'53"W.

Add obst 784' MSL (351' AGL) UC, 32°36'58"N, 89°15'23"W.

Change obst from 763' MSL (383' AGL) to 875' MSL (495' AGL), 33°07'23"N, 93°59'52"W.

Add obst 478' MSL (260' AGL) UC, 35°13'47"N, 90°20'16"W.

Add obst 654' MSL (350' AGL) UC, 32°47'36"N, 89°51'03"W.

Add obst 601' MSL (301' AGL), 35°06'55"N, 89°56'36"W.

Add obst 439' MSL (335' AGL) UC, 32°55'35"N, 91°40'19"W.

Add obst 478' MSL (260' AGL), 35°13'47"N, 90°20'16"W.

AIRPORTS**8 Apr 2010 – 3 Jun 2010** No Major Changes.**NAVAIDS****8 Apr 2010** No Major Changes.**3 Jun 2010** Delete KOSCUISKO NDB, 33°05'27"N, 89°32'25"W.

Delete CLARKSDALE NDB, 34°17'35"N, 90°30'56"W.

Delete ASH FLAT NDB, 36°10'50"N, 91°36'23"W.

AIRSPACE**8 Apr 2010 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****8 Apr 2010 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****8 Apr 2010 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****8 Apr 2010 – 3 Jun 2010** No Major Changes.

MEMPHIS TERMINAL AREA CHART**42nd Edition, 8 Apr 2010****OBSTRUCTIONS****8 Apr 2010** No Major Changes.**3 Jun 2010** Add obst 478' MSL (260' AGL), 35°13'47"N, 90°20'16"W.

Add obst 601' MSL (301' AGL), 35°06'55"N, 89°56'36"W.

AIRPORTS**8 Apr 2010 – 3 Jun 2010** No Major Changes.**NAVAIDS****8 Apr 2010 – 3 Jun 2010** No Major Changes.**AIRSPACE****8 Apr 2010 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****8 Apr 2010 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****8 Apr 2010 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****8 Apr 2010 – 3 Jun 2010** No Major Changes.

MIAMI SECTIONAL
86th Edition, 11 Feb 2010

OBSTRUCTIONS

11 Feb 2010 – 3 Jun 2010 No Major Changes.

AIRPORTS

11 Feb 2010 – 3 Jun 2010 No Major Changes.

NAVAIDS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

3 Jun 2010 Shutdown RUBIN NDB, 26°41'16"N, 80°12'37"W.

Delete NAPLE NDB, 26°09'20"N, 81°46'28"W.

Delete VERO BEACH NDB, 27°39'51"N, 80°25'10"W.

AIRSPACE

11 Feb 2010 – 3 Jun 2010 No Major Changes.

SPECIAL USE AIRSPACE

11 Feb 2010 – 3 Jun 2010 No Major Changes.

MILITARY TRAINING ROUTES

11 Feb 2010 – 3 Jun 2010 No Major Changes.

MISCELLANEOUS

11 Feb 2010 – 3 Jun 2010 No Major Changes.

MIAMI TERMINAL AREA CHART
75th Edition, 11 Feb 2010

OBSTRUCTIONS

11 Feb 2010 – 3 Jun 2010 No Major Changes.

AIRPORTS

11 Feb 2010 – 3 Jun 2010 No Major Changes.

NAVAIDS

11 Feb 2010 – 3 Jun 2010 No Major Changes.

AIRSPACE

11 Feb 2010 – 3 Jun 2010 No Major Changes.

SPECIAL USE AIRSPACE

11 Feb 2010 – 3 Jun 2010 No Major Changes.

MILITARY TRAINING ROUTES

11 Feb 2010 – 3 Jun 2010 No Major Changes.

MISCELLANEOUS

11 Feb 2010 – 3 Jun 2010 No Major Changes.

NEW ORLEANS SECTIONAL
86th Edition, 3 Jun 2010

OBSTRUCTIONS

3 Jun 2010 No Major Changes.

AIRPORTS

3 Jun 2010 No Major Changes.

NAVAIDS

3 Jun 2010 No Major Changes.

AIRSPACE

3 Jun 2010 No Major Changes.

SPECIAL USE AIRSPACE

3 Jun 2010 No Major Changes.

MILITARY TRAINING ROUTES

3 Jun 2010 No Major Changes.

MISCELLANEOUS

3 Jun 2010 No Major Changes.

ORLANDO TERMINAL AREA CHART
40th Edition, 11 Feb 2010**OBSTRUCTIONS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**AIRPORTS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**3 Jun 2010** Shutdown KISSIMMEE NDB, 28°17'22"N, 81°26'03"W.

Delete GEIGER LAKE NDB, 28°35'35"N, 80°48'59"W.

AIRSPACE**11 Feb 2010 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 3 Jun 2010** No Major Changes.

PUERTO RICO–VIRGIN ISLAND TERMINAL AREA CHART
36th Edition, 22 Oct 2009**OBSTRUCTIONS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 818' MSL (260' AGL) UC, 18°02'29"N, 66°50'24"W.**8 Apr 2010 – 3 Jun 2010** No Major Changes.**AIRPORTS****22 Oct 2009 – 3 Jun 2010** No Major Changes.**NAVAIDS****22 Oct 2009 – 3 Jun 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 3 Jun 2010** No Major Changes.

ST. LOUIS SECTIONAL

81st Edition, 17 Dec 2009

OBSTRUCTIONS**17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 1097' MSL (275' AGL) UC, 39°03'46"N, 84°59'04"W.

Add obst 1410' MSL (630' AGL) UC, 40°03'14"N, 85°59'22"W.

Change obst from 827' MSL (243' AGL) to 882' MSL (300' AGL), 38°44'06"N, 89°57'02"W.

Add obst 738' MSL (226' AGL) UC, 38°11'11"N, 89°40'09"W.

Add obst 722' MSL (260' AGL) UC, 38°17'56"N, 89°59'34"W.

Add obst 692' MSL (260' AGL) UC, 37°15'35"N, 88°58'50"W.

Add obst 851' MSL (349' AGL) UC, 38°45'25"N, 89°06'09"W.

Add obst 756' MSL (275' AGL) UC, 38°32'04"N, 89°31'26"W.

Add obst 865' MSL (220' AGL), 39°17'43"N, 88°00'03"W.

Add obst 1200' MSL (237' AGL) UC, 39°12'34"N, 86°38'31"W.

Add obst 917' MSL (227' AGL) UC, 37°53'08"N, 86°03'40"W.

Add obst 1003' MSL (258' AGL) UC, 40°12'40"N, 88°44'43"W.

Add obst 851' MSL (258' AGL) UC, 39°55'55"N, 89°40'00"W.

Add obst 888' MSL (258' AGL) UC, 39°40'32"N, 89°50'15"W.

Add obst 1265' MSL (315' AGL) UC, 37°45'31"N, 90°46'15"W.

Add obst 868' MSL (258' AGL) UC, 39°58'06"N, 89°43'48"W.

Add obst 879' MSL (258' AGL) UC, 39°56'42"N, 89°55'56"W.

Add obst 838' MSL (258' AGL) UC, 39°50'25"N, 89°48'10"W.

Add obst 885' MSL (258' AGL) UC, 39°02'32"N, 89°53'08"W.

Add obst 887' MSL (258' AGL) UC, 39°04'50"N, 89°48'26"W.

8 Apr 2010 Add obst 1164' MSL (400' AGL) UC, 40°10'06"N, 89°05'56"W.

Add obst 1566' MSL (204' AGL) UC, 37°39'55"N, 83°57'21"W.

Add obst 817' MSL (300' AGL) UC, 38°37'03"N, 86°42'35"W.

Add obst 1142' MSL (295' AGL) UC, 38°45'58"N, 84°53'45"W.

Add obst 1022' MSL (256' AGL) UC, 37°30'50"N, 86°25'55"W.

Add obst 703' MSL (258' AGL) UC, 38°15'24"N, 89°03'24"W.

Add obst 900' MSL (250' AGL) UC, 40°06'39"N, 90°33'35"W.

Add obst 1385' MSL (279' AGL) UC, 36°10'15"N, 84°02'17"W.

Add obst 712' MSL (280' AGL) UC, 36°40'56"N, 88°44'19"W.

Add obst 1578' MSL (235' AGL) UC, 36°52'32"N, 84°12'59"W.

Add obst 1409' MSL (255' AGL) UC, 36°46'20"N, 84°45'59"W.

Add obst 863' MSL (280' AGL) UC, 37°48'34"N, 85°34'52"W.

Add obst 1133' MSL (299' AGL) UC, 38°20'55"N, 85°02'02"W.

Add obst 1170' MSL (280' AGL) UC, 38°15'12"N, 84°37'40"W.

Add obst 1199' MSL (299' AGL) UC, 38°16'32"N, 84°57'02"W.

Add obst 1119' MSL (265' AGL) UC, 38°26'43"N, 85°10'39"W.

Add obst 829' MSL (255' AGL) UC, 37°16'08"N, 86°40'28"W.

Add obst 902' MSL (255' AGL) UC, 36°45'38"N, 86°43'03"W.

Add obst 682' MSL (300' AGL) UC, 36°55'13"N, 87°58'37"W.

Add obst 1032' MSL (255' AGL) UC, 36°50'24"N, 85°56'34"W.

Add obst 905' MSL (310' AGL) UC, 37°51'44"N, 86°45'00"W.

Add obst 1477' MSL (255' AGL) UC, 36°55'42"N, 84°14'33"W.

Add obst 1052' MSL (255' AGL) UC, 37°05'29"N, 85°36'52"W.

Add obst 977' MSL (260' AGL) UC, 39°09'51"N, 90°48'57"W.

Add obst 834' MSL (234' AGL) UC, 38°17'02"N, 90°35'42"W.

Add obst 955' MSL (232' AGL) UC, 38°19'22"N, 90°50'28"W.

Add obst 787' MSL (400' AGL) UC, 36°15'29"N, 88°11'11"W.

Add obst 1178' MSL (286' AGL) UC, 36°30'51"N, 86°33'57"W.

Add obst 988' MSL (290' AGL) UC, 36°27'48"N, 87°37'08"W.

Add obst 2210' MSL (260' AGL) UC, 36°23'13"N, 84°20'11"W.

Add obst 1792' MSL (306' AGL) UC, 37°36'25"N, 83°59'58"W.

Add obst 1020' MSL (349' AGL) UC, 37°06'51"N, 87°56'32"W.

Add obst 887' MSL (259' AGL) UC, 39°35'02"N, 89°44'44"W.

Add obst 1008' MSL (216' AGL) UC, 39°20'01"N, 84°46'34"W.

Add obst 959' MSL (260' AGL) UC, 38°24'38"N, 90°45'42"W.

Add obst 962' MSL (215' AGL) UC, 37°41'57"N, 84°29'03"W.

3 Jun 2010 Add obst 648' MSL (260' AGL), 36°56'39"N, 90°10'08"W.

Add obst 655' MSL (258' AGL), 37°51'48"N, 89°19'11"W.

AIRPORTS**17 Dec 2009** No Major Changes.**11 Feb 2010** Delete ACTION arpt, 39°07'57"N, 84°49'43"W.

Delete RP 19, RP 14 at SMYRNA arpt, 36°00'32"N, 86°31'12"W.

8 Apr 2010 Delete RICHARDSON arpt, 38°22'50"N, 87°13'14"W.**3 Jun 2010** Change CTAF 122.8 to 123.05 at ALEXANDRIA arpt 40°13'57"N, 85°38'15"W.

Change CTAF 122.8 to 122.9 at CYNTHIANA-HARRISON CO arpt 38°21'58"N, 84°17'00"W.

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NAVAIDS**17 Dec 2009** No Major Changes.**11 Feb 2010** Delete CLAYE NDB, 39°03'23"N, 86°35'58"W.

Shutdown KENNETT NDB, 36°13'43"N, 90°02'21"W.

Shutdown LITCHFIELD NDB, 39°09'55"N, 89°40'32"W.

8 Apr 2010 – 3 Jun 2010 No Major Changes.**AIRSPACE****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Revise ST. LOUIS, MO. Class D: That airspace extending upward from the surface to and including 3,000 feet MSL within a 4.3-mile radius of Spirit of St. Louis Airport, and within 1 mile each side of the 258° bearing from the airport extending from the 4.3-mile radius to 4.6 miles west of the airport, excluding that airspace within the St. Louis, MO Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.**3 Jun 2010** Revise HUNTINGBURG, IN Class E: That airspace extending upward from 700 feet above the surface within a 7-mile radius of Huntingburg Airport and within 2 miles either side of the 091° bearing from the airport extending from the 7-mile radius to 11.1 miles east of the airport.**SPECIAL USE AIRSPACE****17 Dec 2009 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 3 Jun 2010** No Major Changes.

TAMPA TERMINAL AREA CHART**40th Edition, 11 Feb 2010****OBSTRUCTIONS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**AIRPORTS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**NAVAIDS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 3 Jun 2010** No Major Changes.

U.S. GULF COAST VFR CHART
24th Edition, 22 Oct 2009**OBSTRUCTIONS****22 Oct 2009 – 3 Jun 2010** No Major Changes.**AIRPORTS****22 Oct 2009 – 3 Jun 2010** No Major Changes.**NAVAIDS****22 Oct 2009 – 3 Jun 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Add LCHCB IFR Waypoint, 29°31'39"N, 93°00'00"W.

Add LCHLB IFR Waypoint, 29°32'11"N, 93°20'00"W.

Add LCHRB IFR Waypoint, 29°31'04"N, 92°40'00"W.

Add LLACB IFR Waypoint, 29°30'31"N, 92°00'00"W.

Add LLALB IFR Waypoint, 29°30'49"N, 92°20'00"W.

Add LLARB IFR Waypoint, 29°30'10"N, 91°43'49"W.

8 Apr 2010 – 3 Jun 2010 No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 3 Jun 2010** No Major Changes.

WASHINGTON SECTIONAL**87th Edition, 11 Feb 2010****OBSTRUCTIONS****11 Feb 2010** No Major Changes.**8 Apr 2010** Add obst 371' MSL (310' AGL), 36°15'27"N, 77°30'00"W.**3 Jun 2010** Add obst 934' MSL (435' AGL) UC, 39°26'04"N, 77°58'33"W.

Add obst 1288' MSL (315' AGL) UC, 39°31'10"N, 78°47'41"W.

Add obst 1357' MSL (250' AGL) UC, 39°56'02"N, 78°01'01"W.

AIRPORTS**11 Feb 2010** No Major Changes.**8 Apr 2010** HALIFAX COUNTY arpt closed, 36°26'22"N, 77°42'33"W.

Add CTAF 126.2 at A P HILL (FORT A P HILL) arpt, 38°04'07"N, 77°19'06"W.

Change WASHINGTON DULLES INTL ATCT freq from 128.425 to 134.425, 38°56'40"N, 77°27'21"W.

3 Jun 2010 No Major Changes.**NAVAIDS****11 Feb 2010 – 3 Jun 2010** No Major Changes.**AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 3 Jun 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 3 Jun 2010** No Major Changes.

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

UNITED STATES

| FACILITY NAME | CHART & PANEL |
|--|-----------------|
| Frankfort, IL (LL40) | L-28H |
| Chicago App/Dep Con 133.1 285.6 | |
| Glasgow Industrial, MT (Ø7MT) | H-1E, 2F, L-13D |
| Salt Lake Center App/Dep Con 126.85 305.2 | |
| USAF Academy Bullseye Aux Airstrip, CO (C09Ø) | L-10F |
| ASOS 118.325 | |
| West Kentucky Airpark, KY (5KY3) | L-16I |
| Memphis Center App/Dep Con 133.65 292.15 | |
| William P Gwinn, FL (Ø6FA) | H-8I, L-23C |
| Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z†) | |
| Gnd Con 121.65 279.25 | |

CANADA

| FACILITY NAME | CHART & PANEL |
|--|-------------------|
| Abbotsford, BC (CYXX) | H-1B, L-12F |
| ATIS 119.8 (1500-0700Z†) | |
| Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8 | |
| Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z†) Gnd Con 121.8 | |
| MF 119.4 295.0 (0700-1500Z†) (Shape irregular to 4500') | |
| Amos/Magny, QC (CYEY) | H-11B |
| Montreal Center App/Dep Con 125.9 | |
| Atikokan Muni, ON (CYIB) | L-14I |
| MF 122.3 (5 NM to 4500' No ground station) | |
| Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS) | H-11B, L-31D |
| AWOS 122.55 (Pvt) | |
| Toronto Center App/Dep Con 124.025 | |
| Bar River, ON (CPF2) | L-31C |
| Toronto Center App/Dep Con 132.65 | |
| Bathurst, NB (CZBF) | L-32J |
| Moncton Center App/Dep Con 134.25 | |
| Boundary Bay, BC (CZBB) | H-1B, L-1E |
| ATIS 125.5 (1500-0700Z†) | |
| Vancouver App/Dep Con 132.3 363.8 | |
| Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z†) Gnd Con 124.3 | |
| MF 118.1 (0700-1500Z† to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) | |
| Brampton, ON (CNC3) | L-31D |
| Toronto Trml App/Dep Con 119.3 253.1 | |
| Brandon Muni, MB (CYBR) | H-2H |
| Winnipeg Center App/Dep Con 132.25 285.4 | |
| MF 122.1 (5 NM to 4000') | |
| Brantford, ON (CYFD) | L-31D |
| Toronto Trml App/Dep Con 128.27 | |
| Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3) | L-32G |
| Montreal Center App/Dep Con 134.675 | |
| Bromont, QC (CZBM) | L-32G |
| Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') | |
| Burlington Airpark, ON (CZBA) | L-31D |
| Toronto Center App/Dep Con 119.3 253.1 | |
| Castlegar/West Kootenay Rgnl, BC (CYCG) | H-1C |
| Vancouver Center App/Dep Con 134.2 227.3 | |
| MF 122.1 (5 NM to 6500') | |
| Centralia/James T. Fld Muni, ON (CYCE) | H-10G, 11B, L-31D |
| Toronto Center App/Dep Con 135.30 | |
| Charlottetown, PE (CYYG) | H-11E, L-32J |
| Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') | |
| Chatham-Kent, ON (CNZ3) | H-10G, L-30G |
| Cleveland Center App/Dep Con 132.25 | |

| FACILITY NAME | CHART & PANEL |
|---|-------------------|
| Collingwood, ON (CNY3) Toronto Center App/Dep Con 124.02 | H-11B, L-31D |
| Cornwall Rgnl, ON (CYCC) Boston Center App/Dep Con 135.25 377.1 | L-32G |
| Cranbrook/Canadian Rockies Intl, BC (CYXC) Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100') | H-1C |
| Debert, NS (CCQ3) Halifax Trml App/Dep Con 119.2 | H-11E, L-32J |
| Digby, NS (CYID) Moncton Center App/Dep Con 123.9 | L-32J |
| Downsview, ON (CYZD) Toronto Center App/Dep Con 133.4 MF 126.2 (1300-2300Z†, 3 NM to 1700') | H-11B, L-31E |
| Drummondville, QC (CSC3) Montreal Center App/Dep Con 132.35 | L-32H |
| Earlton (Timiskaming Rgnl), ON (CYXR) MF 122.0 (5 NM to 3800') AWOS 128.6 | H-11B |
| Elliot Lake Muni, ON (CYEL) Toronto Center App/Dep Con 135.4 | L-31C |
| Fort Frances Muni, ON (CYAG) Minneapolis Center App/Dep Con 120.9 | L-14H |
| Fredericton Intl, NB (CYFC) ATIS 127.55 (1045-0245Z†, OT AWOS) Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1045-0245Z†) Gnd Con 121.7 (1045-0245Z†) MF 119.0 (0245-1045Z†, 5 NM to 3500') | H-11E, L-32I |
| Goderich, ON (CYGD) Toronto Center App/Dep 135.3 266.3 | H-11B, L-31D |
| Greenwood, NS (CYZX) ATIS 128.85 244.3 (1100-0000Z†) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 Gnd Con 133.75 289.4 Cinc Del 128.025 283.9 | H-11E, L-32J |
| Grimsby Air Park, ON (CNZ8) Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475 | L-31E |
| Halifax/Shearwater, NS (CYAW) ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1 | H-11E, L-32J |
| Halifax/Stanfield Intl, NS (CYHZ) ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 363.8 Tower 118.4 236.6 Gnd Con 121.9 275.8 Cinc Del 123.95 Apron Advisory 122.125 | H-11E, L-32J |
| Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 | H-10H, 11B, L-11B |
| Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z†) MF 122.5 (1115-0400Z† 5 NM to 3300') | H-11C, L-31E, 32F |
| Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200-0400Z†) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z†) Gnd Con 121.8 MF 126.0 (0400-1200Z† 5 NM to 4000') | H-11B, L-31D |
| Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 | L-32G |
| La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5 | H-11C |
| Langley, BC (CYNJ) ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900') | L-1E |

| FACILITY NAME | CHART & PANEL |
|--|---------------------------|
| Leamington, ON (CLM2) Cleveland Center App/Dep Con 132.45 | L-30F |
| Lethbridge, AB (CYQL) ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000') | H-1D |
| Lindsay, ON (CNF4) Toronto Center App/Dep 134.25 | L-31E, L-32F |
| Liverpool/South Shore Rgnl, NS (CYAU) Moncton Center App/Dep Con 123.9 | L-32J |
| London, ON (CYXU) ATIS 127.8 (1120-0345Z‡) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000') | H-10G, 11B, L-30G, 31D |
| Manitowaning/Manitoulin East Muni, ON (CYEM) Toronto Center App/Dep 135.4 260.9 | L-31C |
| Maniwaki, QC (CYMW) Montreal Center App/Dep Con 126.57 | L-32G |
| Mascouche, QC (CSK3) MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.) | L-32G |
| Medicine Hat, AB (CYXH) AWOS 124.875 (0345-1245Z‡) MF 122.2 (1245-0345Z‡ 5 NM to 5400') | H-1D |
| Midland/Huronina, ON (CYEE) Toronto Center App/Dep 124.025 | L-31D |
| Miramichi, NB (CYCH) Moncton Center App/Dep Con 123.7 | H-11E, L-32J |
| Moncton/Greater Moncton Intl, NB (CYQM) ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075 | H-11E, L-32J |
| Mont-Laurier, QC (CSD4) Montreal Center App/Dep Con 126.57 | L-32G |
| Montreal Intl (Mirabel), QC (CYMX) ATIS 125.7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 268.3 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 | H-11C, 12K, L-32G |
| Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 | H-11C, 12K, L-32G |
| Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 | H-11C, L-32G |
| Muskoka, ON (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') | H-11B, L-31D |
| Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') | H-1B, L-1E |
| North Bay, ON (CYYB) ATIS 124.9 (1130-0330Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000') | H-11B, L31D |
| Oshawa, ON (CYOO) ATIS 125.675 (1130-0330Z‡) Toronto Trml App/Dep Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000') | L-31E |

| FACILITY NAME | CHART & PANEL |
|---|-------------------|
| Ottawa/Carp, ON (CYRP) ATIS 121.15 Ottawa Trml App/Dep Con 128.175 252.5 | L-31E, 32F |
| Ottawa/Gatineau, QC (CYND) Ottawa Trml App/Dep Con 127.7 128.175 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7 | H-11C, L-32G |
| Ottawa/MacDonald-Cartier Intl, ON (CYOW) ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 (VFR South) 120.1 (VFR North) 118.8 341.3 Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175 | L-11C |
| Owen Sound/Billy Bishop Rgnl, ON (CYOS) Toronto Center App/Dep 132.575 290.6 | L-31D |
| Pelee Island, ON (CYPT) Cleveland Center App/Dep Con 126.35 360.0 | L-30F |
| Pembroke, ON (CYTA) Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR) | H-11C, L-31E, 32F |
| Penticton, BC (CYYF) Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100') | H-1B |
| Peterborough, ON (CYPQ) AWOS 126.925 Toronto Center App/Dep 134.25 | H-11B, L-31E, 32F |
| Pincher Creek, AB (CZPC) Edmonton Center App/Dep Con 132.75 265.2 | H-1D |
| Pitt Meadows, BC (CYPK) ATIS 125.0 (1500-0700Z†) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z†) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z†) (3NM to 2500') | L-1E |
| Quebec/Jean Lesage Intl, QC (CYQB) ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 Tower 118.65 236.6 Gnd Con 121.9 250.0 | H-11D, L-32H |
| Riviere Du Loup, QC (CYRI) AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6 | H-11D |
| Rouyn Noranda, QC (CYUY) Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000') | H-11B |
| Saint John, NB (CYSJ) Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400') | H-11E, L-32J |
| Sarnia (Chris Hadfield), ON (CZSR) AWOS 119.125 Toronto Center 134.375 | H-10G, 11B, L-30F |
| Sault Ste Marie, ON (CYAM) ATIS 133.05 (1300-0100Z†) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z†) Gnd Con 121.7 MF 118.8 (0100-1300Z† 5 NM irregular shape to 3000') | H-2K, L-31B |
| Sherbrooke, QC (CYAM) AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800') | H-11D, L-32H |
| South Renfrew Muni, ON (CNP3) Montreal Center App/Dep 124.275 | L-31E, 32F |
| Southport, MB (CYPG) ATIS 120.85 (Mon-Fri 1400-2300Z† except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z† except holidays) Gnd Con 121.7 275.8 | H-2H |

| FACILITY NAME | CHART & PANEL |
|--|-------------------|
| Springwater Barrie Airport, ON (CNA3) Toronto Center App/Dep Con 124.025 | L-31D |
| St. Catharines/Niagara District, ON (CYSN) ATIS 128.525 (1215-0200Z‡) Toronto Trml App/Dep Con 133.4 253.1 MF 123.25 (1215-0200Z‡ 5 NM to 3300') | H-10H, 11B, L-31E |
| St. Frederic, QC (CSZ4) Montreal Center App/Dep Con 135.025 270.9 | L-32H |
| St. Georges, QC (CYSG) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL) | H-32H, L-11D |
| St. Jean, QC (CYJN) Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡) Gnd Con 121.7 | L-32G |
| Sudbury, ON (CYSB) ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000') | H-31B, 10G, L-31D |
| Summerside, PE (CYSU) AWOS 122.55 (Pvt) Moncton Center App/Dep Con 124.4 384.8 | H-11E, L-32J |
| Thunder Bay, ON (CYQT) ATIS 128.8 (1100-0400Z‡) Winnipeg Center App/Dep Con 132.125 (0400-1100Z‡) Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000') | H-2J, L-14J |
| Timmins/Victor M. Power, ON (CYTS) ATIS 124.95 (1000-0500Z‡) Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000') | H-11B |
| Toronto/Buttonville Muni, ON (CYKZ) ATIS 127.1 (1200-0400Z‡) Toronto Trml App/Dep Con 133.4 Tower 124.8 119.9 (1200-0400Z‡) Gnd Con 121.8 MF 124.8 (0400-1200Z‡ No gnd station. 5 NM shape irregular to below 2500') | L-31E |
| Toronto/Billy Bishop Toronto City Airport, ON (CYTZ) ATIS 133.6 (1130-0400Z‡) App/Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7 | L-31E |
| Toronto/Lester B Pearson Intl, ON (CYYZ) ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200-0400Z‡) | H-11B, L-31D |
| Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 | H-11C, L-31E, 32F |
| Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 | H-11C, L-31E, 32F |
| Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') | H-11C, L-32H |
| Val-d'Or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000') | H-11B |
| Vancouver Intl, BC (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4 | H-1B, L-1E |

| FACILITY NAME | CHART & PANEL |
|--|---------------|
| Victoria Intl, BC (CYYJ) ATIS 118.8 (1400-0800Z‡) App Con 125.95 308.4 Dep Con 133.85 308.4 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7) Clncl Del 126.4 (1400-0800Z‡) | H-1B, L-1E |
| Victoriaville, QC (CSR3) Montreal Center App Con 132.35 | L-32H |
| Waterville/Kings Co Muni, NS (CCW3) Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3 | L-32J |
| Warton, ON (CYVW) Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700') | H-11B, L-31D |
| Windsor, ON (CYQG) ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3 | H-10G, L-8J |
| Yarmouth, NS (CYQI) Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100') | H-11E, L-32I |

MEXICO

| FACILITY NAME | CHART & PANEL |
|--|----------------|
| Abraham Gonzalez Intl (MMCS) Juarez App Con 119.9 Juarez Tower 118.9 | H-4K, L-6F |
| Del Norte Intl (MMAN) ATIS 127.55 (1300-0300Z‡) Monterrey App 119.75 120.4 Tower 118.6 | H-7B, L-20G |
| Durango Intl (MMDO) ATIS 132.1 Tower 118.1 Durango Info 122.3 | H-7A |
| General Abelardo L. Rodriguez Intl (MMTJ) ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Clncl Del 122.35 Tijuana Info 132.1 | H-4H, L-4H |
| General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8 | H-7B, L-20H |
| General Mariano Escobedo Intl (MMMY) ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9 | H-7B, L-20G |
| General R Fierro Villalobos Intl (MMCU) ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4 | L-6I |
| General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 | H-4H, L-4J, 5A |
| General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 | H-7C, L-21A |
| Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4 | H-7B |
| Quetzalcoatl Intl (MMNL) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 | H-7B, L-20G |
| Torreon Intl (MMTC) App Con 119.6 Tower 118.5 | H-7A |





In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.


NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.





GENERAL INFORMATION

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

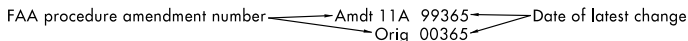
1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., , , .
2. Approach lighting systems that do not bear a system identification are indicated with a negative "0"  beside the name.

A star (★) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., ★

To activate lights use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

| <u>KEY MIKE</u> | <u>FUNCTION</u> |
|--------------------------|---|
| 7 times within 5 seconds | Highest intensity available |
| 5 times within 5 seconds | Medium or lower intensity (Lower REIL or REIL-off) |
| 3 times within 5 seconds | Lowest intensity available (Lower REIL or REIL-off) |

CHART CURRENCY INFORMATION



The Chart Date identifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

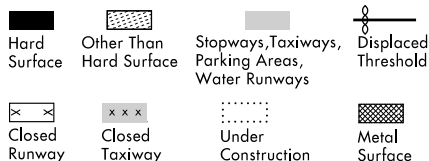
- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

10042
LEGEND

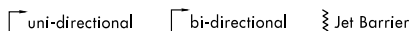
INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

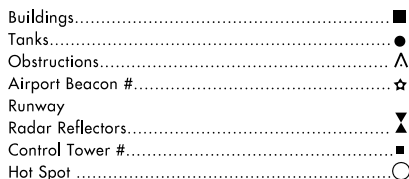


ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



ARRESTING SYSTEM

REFERENCE FEATURES



When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g.,
RWY 14-32 S75, T185, ST175, TT325
PCN 80 F/D/X/U

Helicopter Alighting Areas (H) (H) (H) (H) (H)

Negative Symbols used to identify Copter Procedures landing point..... (H) (H) (H) (H) (H)

Runway Threshold elevation.....THRE 123

Runway TDZ elevation.....TDZE 123

—0.3% DOWN

Runway Slope.....0.8% UP
(shown when runway slope is greater than or equal to 0.3%)

NOTE:

Runway Slope measured to midpoint on runways 8000 feet or longer.

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

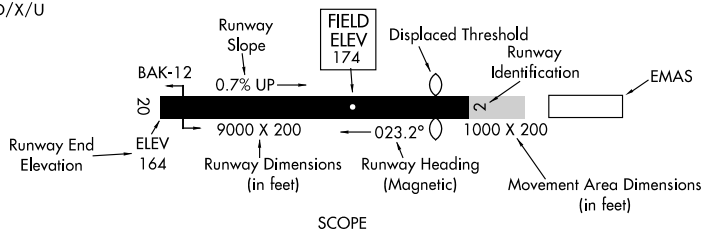
Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

NOTE:

All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)



Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as circles or polygons designated as "HOT¹", "HOT²", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

| CITY/AIRPORT | HOT SPOT | DESCRIPTION |
|--|------------------|--|
| ALABAMA | | |
| MONTGOMERY MONTGOMERY RGNL (DANNELY FIELD) (MGM) | HOT ¹ | Intersection of Twy A3 and the terminal ramp. Potential confusion of Twy A3 as the taxi route to Rwy 10–28. |
| | HOT ² | Intersection of the Twy A5 and the ANG ramp. Potential exiting Rwy 10–28 at Twy A5. |
| FLORIDA | | |
| DAYTONA BEACH DAYTONA BEACH INTL (DAB) | HOT ¹ | Pilots taxiing southbound on Twy W sometimes miss the right turn on Twy S and enter the runway without clearance. |
| HOLLYWOOD NORTH PERRY (HWO) | HOT ¹ | Southbound on Twy D for Rwy 27R departures–Pilots miss the turn onto Twy P and enter the rwy. |
| | HOT ² | The hold line for Rwy 36L is also the hold line for Rwy 09R. |
| | HOT ³ | Acraft taxiing on Twy L westbound to depart on Rwy 18R–36L, Twy L crosses the apch end of Rwy 36R. Pilots should obtain clearance from ground control prior to crossing Rwy 36R. |
| MIAMI MIAMI INTL, FL (MIA) | HOT ¹ | Multiple intersections closely spaced. |
| | HOT ² | Departure taxi out of Spot 15, Spot 14, Spot 13, misidentification of Twy P and Twy Q at Twy T has lead to rwy incursions onto Rwy 12–30. |
| | HOT ³ | Two rwy ends in close proximity. |
| STUART WITHAM FIELD (SUA) | HOT ¹ | Intersecting rwys, wrong rwy departure risk. (Check rwy alignment.) |
| | HOT ² | Rwy 12 and Twy A1. |
| GEORGIA | | |
| ATLANTA HARTSFIELD–JACKSON ATLANTA INTL (ATL) | HOT ¹ | Intersections of Twy C and Twy D at Rwy 08L–26R. Hold short line is only 250 feet after exiting the FBO ramp. Rwy hold bar is canted which peaks towards the twy. |
| | HOT ² | Intersections of Twy C and Twy D at Rwy 08R–26L. Caution transitioning between the parallel rwys. Rwy hold bar is canted which peaks towards the twy. Rwy hold short line is only 380' away after exiting Rwy 08L–26R and 70' south of the Twy B centerline. |
| | HOT ³ | Intersection of Twy H at Rwy 08R–26L. Aircraft travelling westbound for the Twy V end-around, mistakenly turn southbound on Twy H and enter Rwy 08R–26L. |
| | HOT ⁴ | Intersection of Twy D at Rwy 09L–27R. Aircraft southbound on Twy D fail to turn on Twy L and Twy M and enter Rwy 09L–27R. Aircraft crossing Rwy 09L–27R at Twy D southbound to Twy K must turn 45 degrees left immediately after crossing the rwy hold bar. |

AUGUSTA
AUGUSTA RGNL AT BUSH FLD (AGS)

HOT¹

Intersection of Twy E and Rwy 17–35.

LOUISVILLE
BOWMAN FIELD (LOU)

HOT¹

Acft operating near Rwy 06–24, Rwy 15–33 at
midfield are in close proximity to
intersecting/crossing rwy and twys.

NORTH CAROLINA

CHARLOTTE
CHARLOTTE/DOUGLAS INTL (CLT)

HOT¹

Confusing intersection due to convergence of
Twy R, Twy A, Twy C and Twy C9, along with grass
island.

HOT²

Pilots exiting Rwy 18C–36C on Twy S for either
Twy E or Twy F mistakenly turn left on Twy E5 and
reenter the rwy.

RALEIGH/DURHAM
RALEIGH–DURHAM INTL (RDU)

HOT¹

Intersection of Rwy 5R–23L and Twy C.

TENNESEE

KNOXVILLE
MC GHEE TYSON (TYS)

HOT¹

Holding position marking for full length of Rwy 23L
just beyond Twy A8 and Twy A.

HOT²

Ramp exit Twy R5 short distance from Twy A and
Rwy 05R–23L. Pilots miss turn onto Twy A.

HOT³

Ramp exit Twy R4 short distance from Twy A and
Rwy 05R–23L. Pilots miss turn onto Twy A.

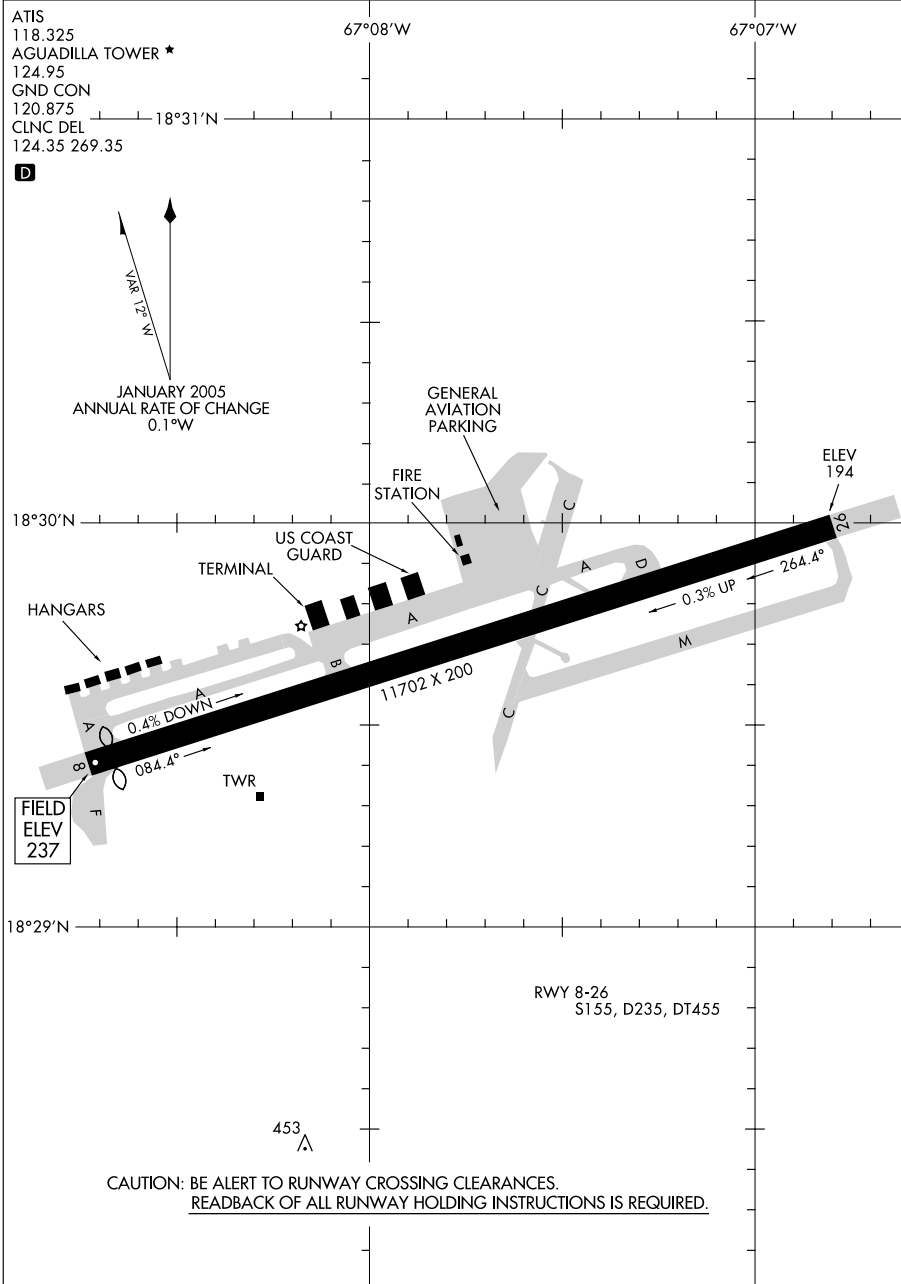
HOT⁴

Acft taxiing on Twy B4 southeast bound sometime
fall to hold short of Rwy 23L.

10154

AIRPORT DIAGRAM

AGUADILLA/RAFAEL HERNANDEZ (BQN) (TJBQ)
AL-1016 (FAA) AGUADILLA, PUERTO RICO



AIRPORT DIAGRAM

10154

AGUADILLA, PUERTO RICO
AGUADILLA/RAFAEL HERNANDEZ (BQN) (TJBQ)

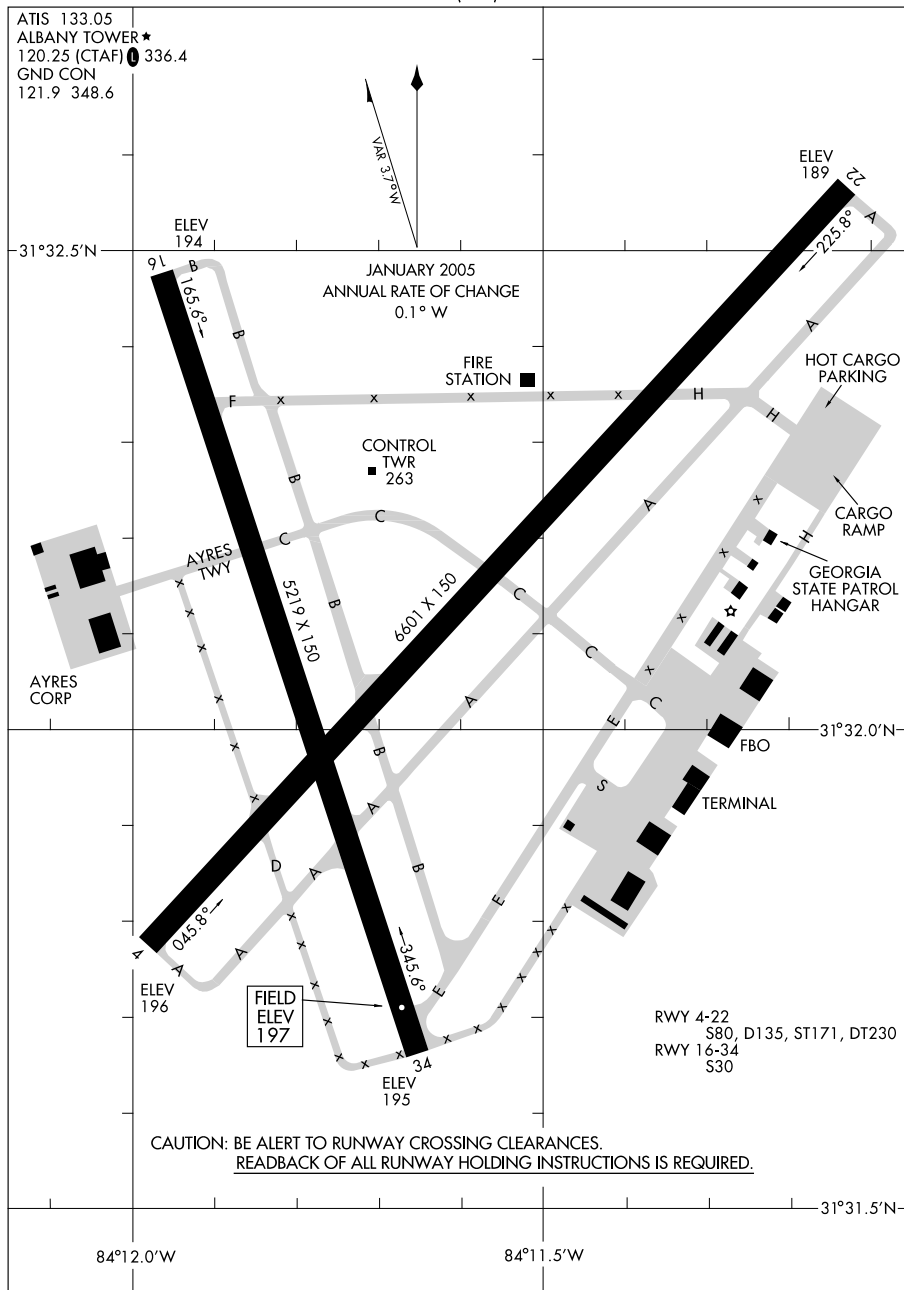
08213

AIRPORT DIAGRAM

ALBANY/SOUTHWEST GEORGIA RGNL (ABY)

AL-8 (FAA)

ALBANY, GEORGIA



AIRPORT DIAGRAM

08213

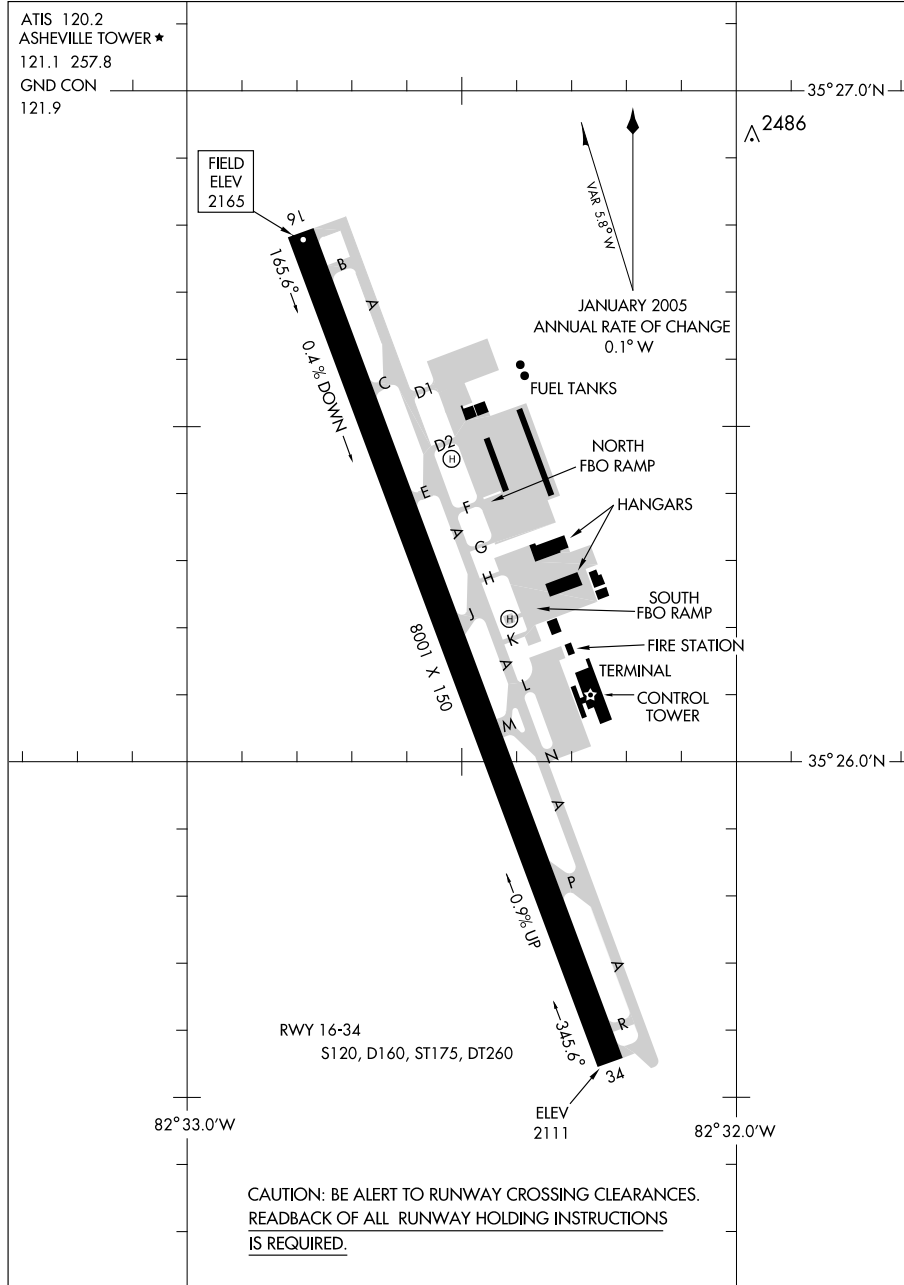
ALBANY, GEORGIA

ALBANY/SOUTHWEST GEORGIA RGNL (ABY)

08101

AIRPORT DIAGRAM

AL-5061 (FAA)

ASHEVILLE RGNL (AVL)
ASHEVILLE, NORTH CAROLINA

AIRPORT DIAGRAM

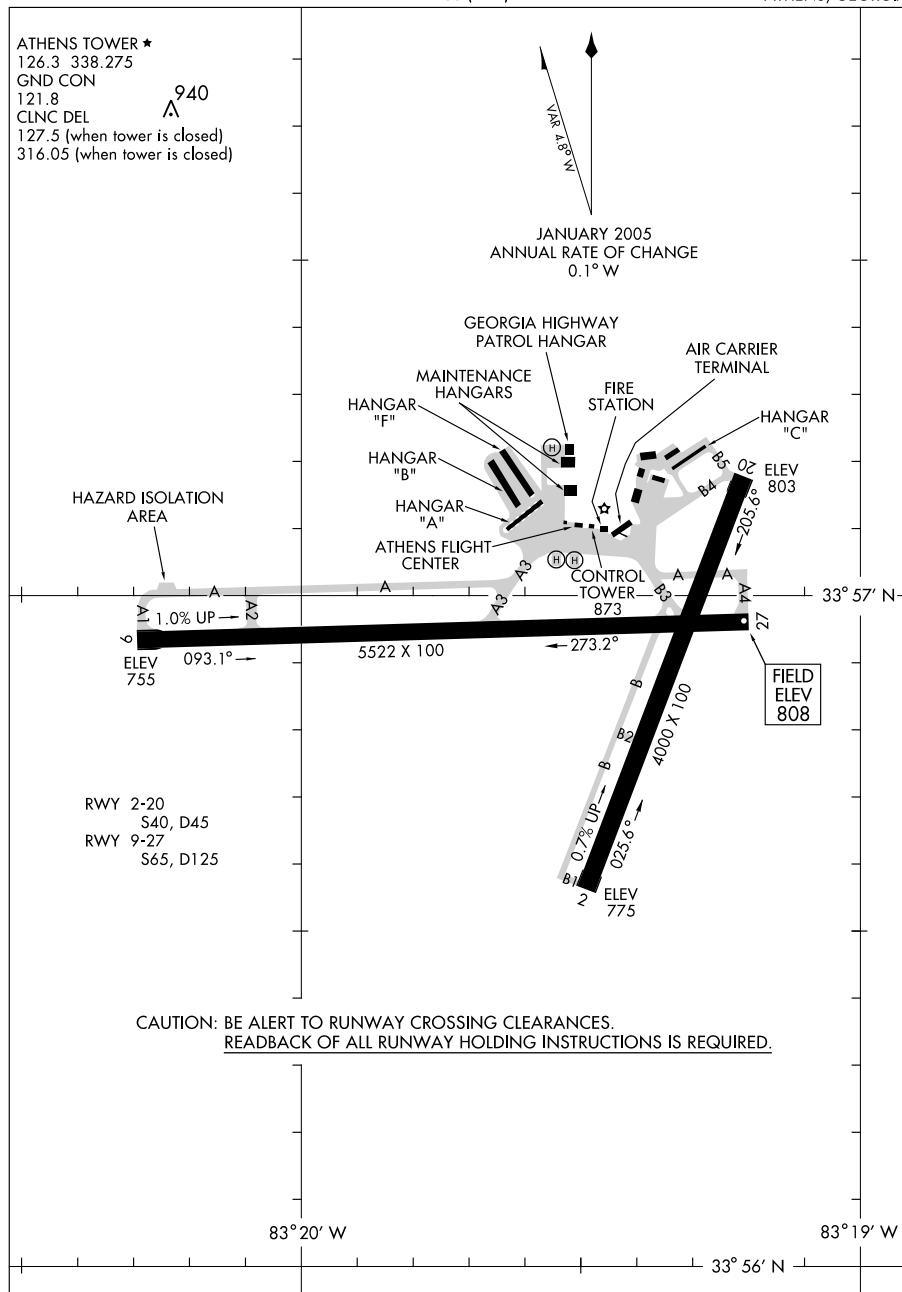
08101

ASHEVILLE, NORTH CAROLINA
ASHEVILLE RGNL (AVL)

07018

AIRPORT DIAGRAM

AL-983 (FAA)

ATHENS/ BEN EPPS (AHN)
ATHENS, GEORGIA

AIRPORT DIAGRAM

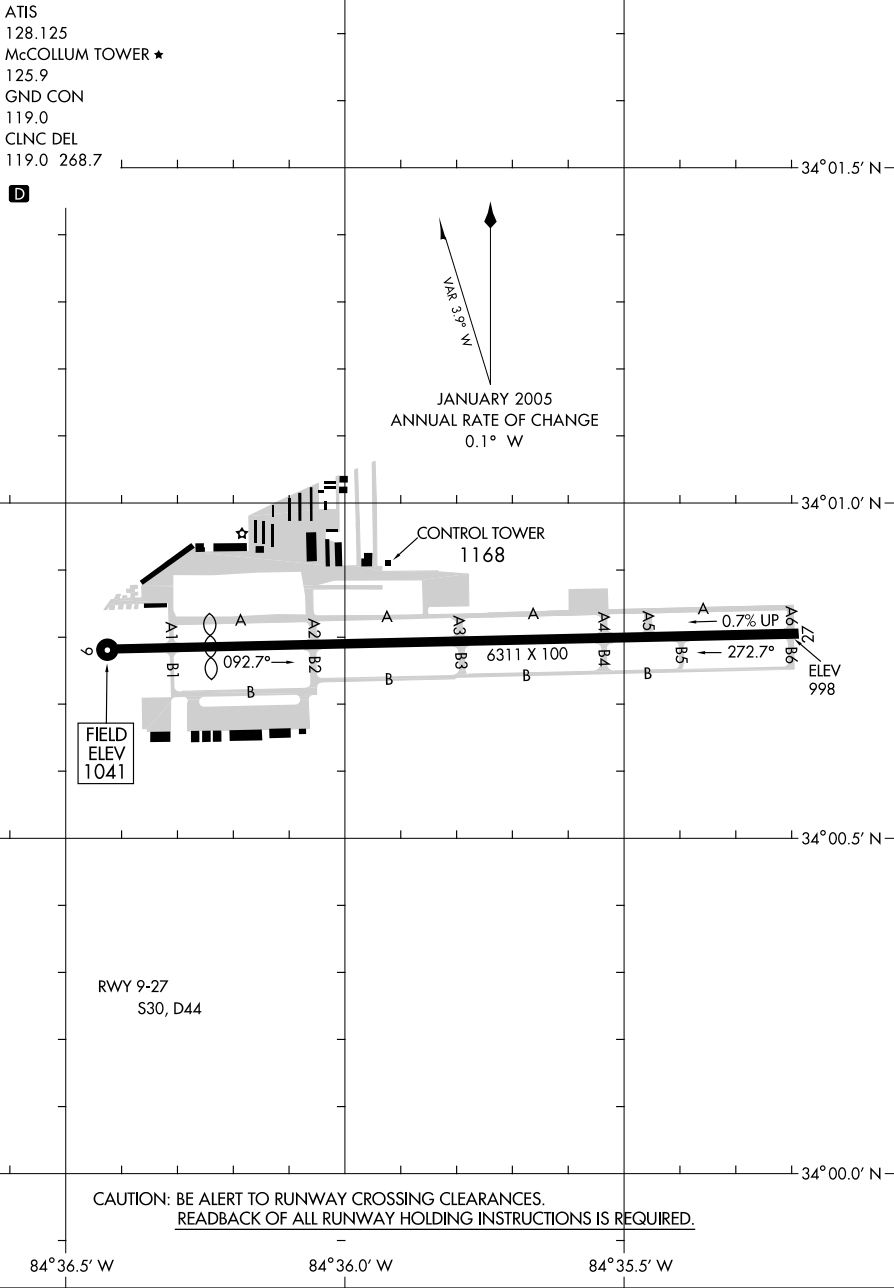
07018

SE, 03 JUN 2010 to 29 JUL 2010

10042

AIRPORT DIAGRAM

ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)
AL-6424 (FAA) ATLANTA, GEORGIA



AIRPORT DIAGRAM

10042

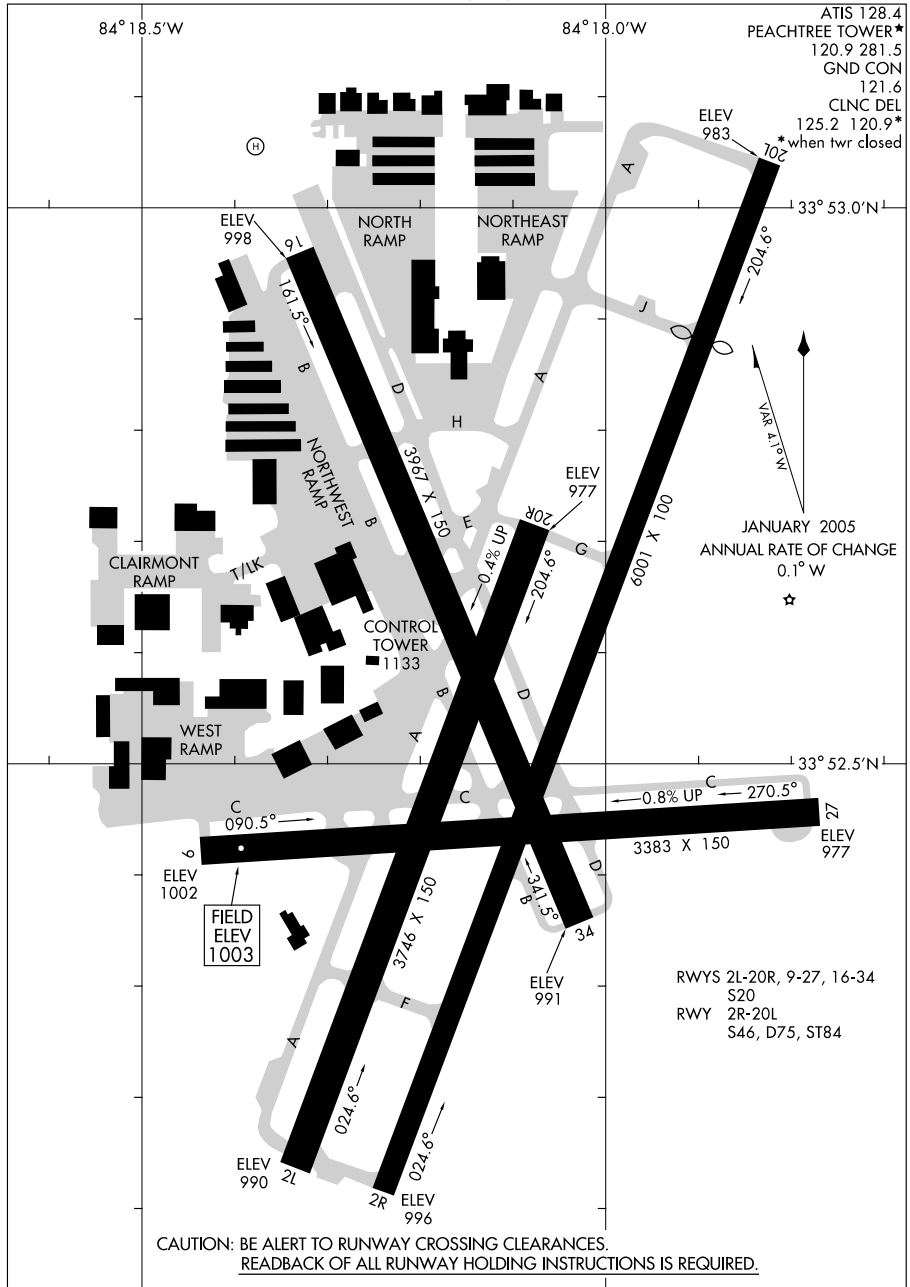
ATLANTA, GEORGIA
ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)

09015

AIRPORT DIAGRAM

AL-469 (FAA)

ATLANTA/DEKALB-PEACHTREE (PDK)
ATLANTA, GEORGIA



AIRPORT DIAGRAM

09015

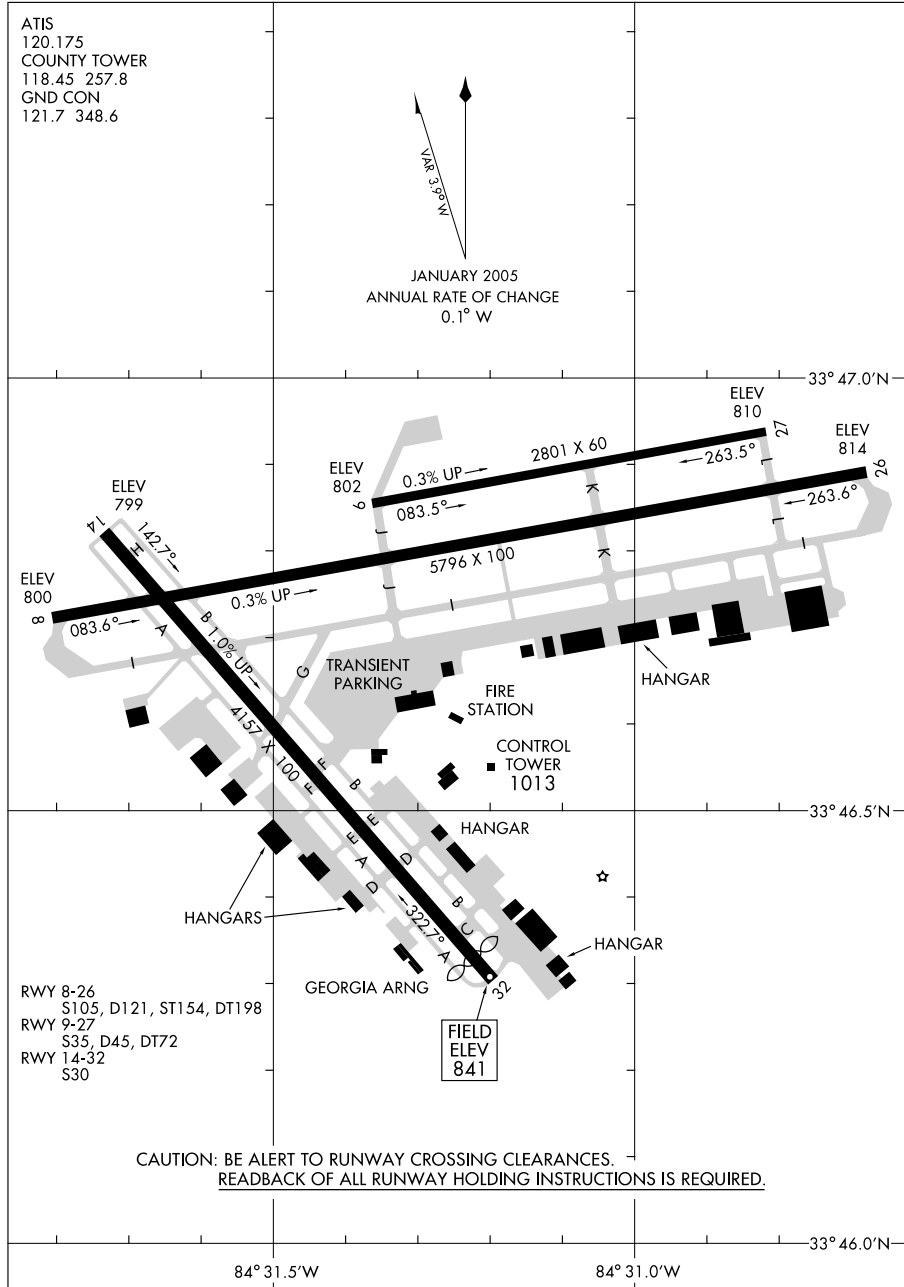
ATLANTA, GEORGIA
ATLANTA/DEKALB-PEACHTREE (PDK)

SE, 03 JUN 2010 to 29 JUL 2010

09239

AIRPORT DIAGRAM

ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (FTY)
AL-745 (FAA)
ATLANTA, GEORGIA



AIRPORT DIAGRAM

09239

ATLANTA, GEORGIA
ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (FTY)

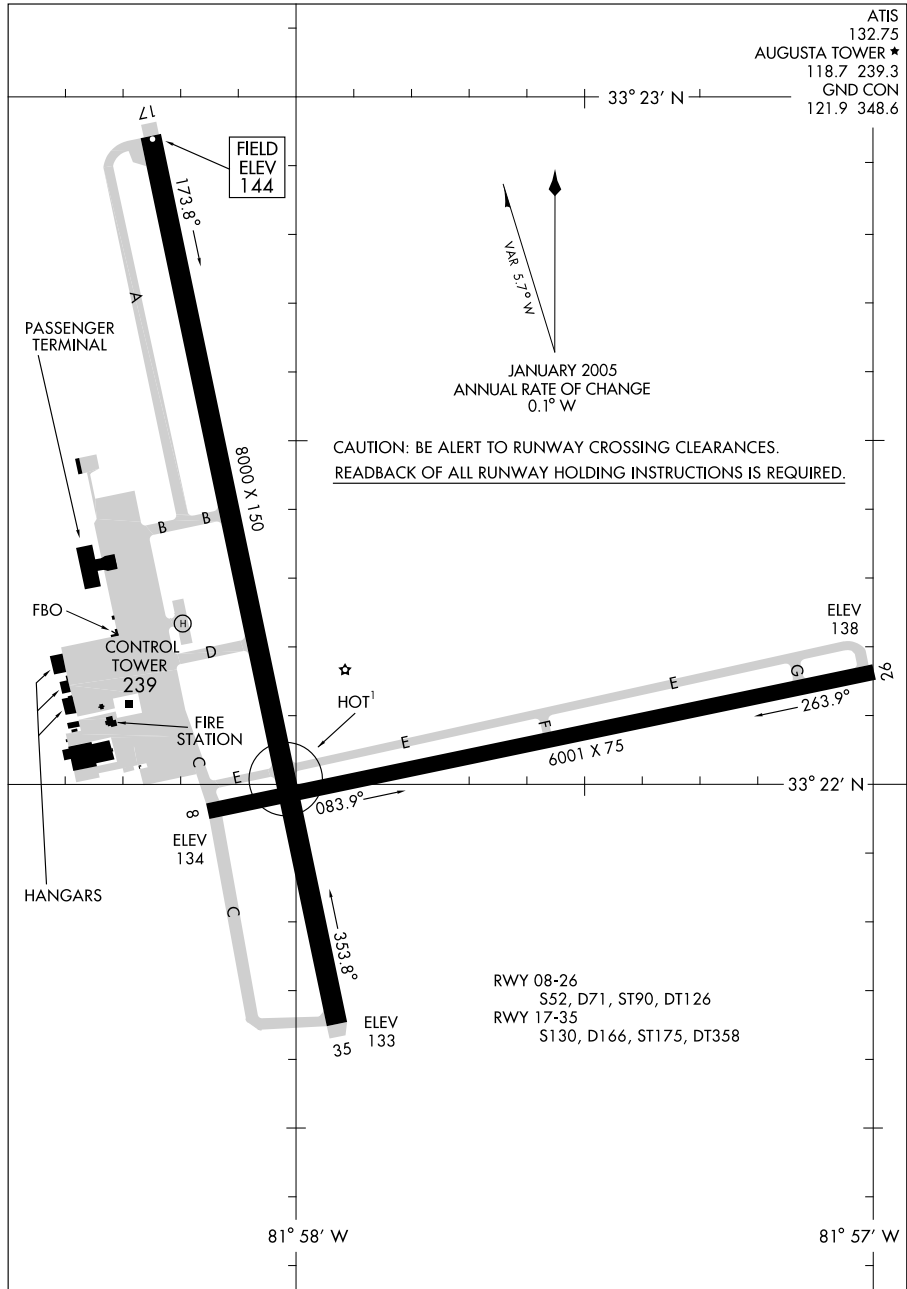
09071

AIRPORT DIAGRAM

AL-27 (FAA)

AUGUSTA RGNL AT BUSH FIELD (AGS)

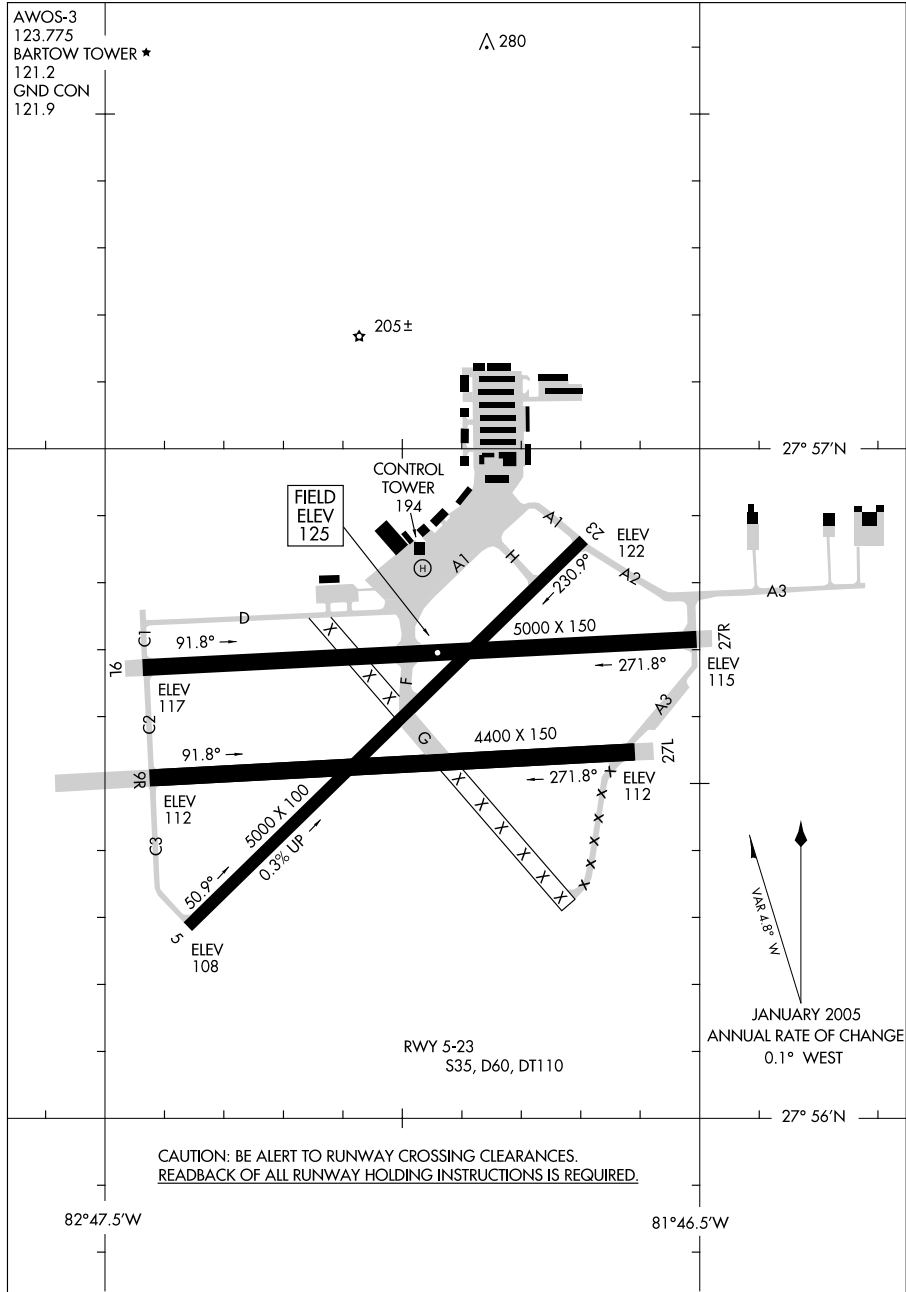
AUGUSTA, GEORGIA



AIRPORT DIAGRAM

09071

AUGUSTA, GEORGIA
AUGUSTA RGNL AT BUSH FIELD (AGS)



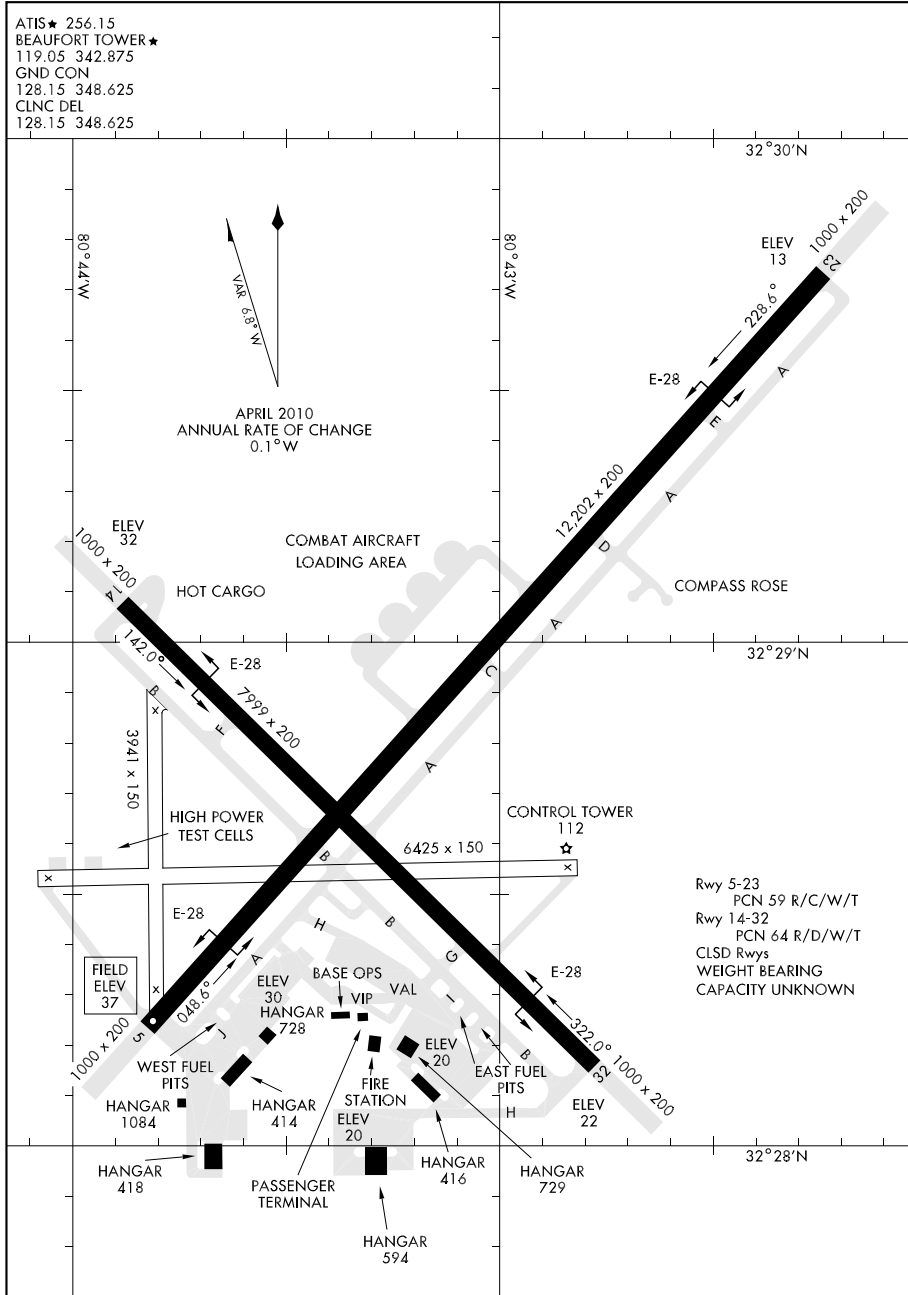
10098

BEAUFORT MCAS (MERRITT FIELD) (KNBC)

AIRPORT DIAGRAM

AFD-916 [USN]

BEAUFORT, SOUTH CAROLINA



AIRPORT DIAGRAM

 BEAUFORT, SOUTH CAROLINA
 BEAUFORT MCAS (MERRITT FIELD) (KNBC)

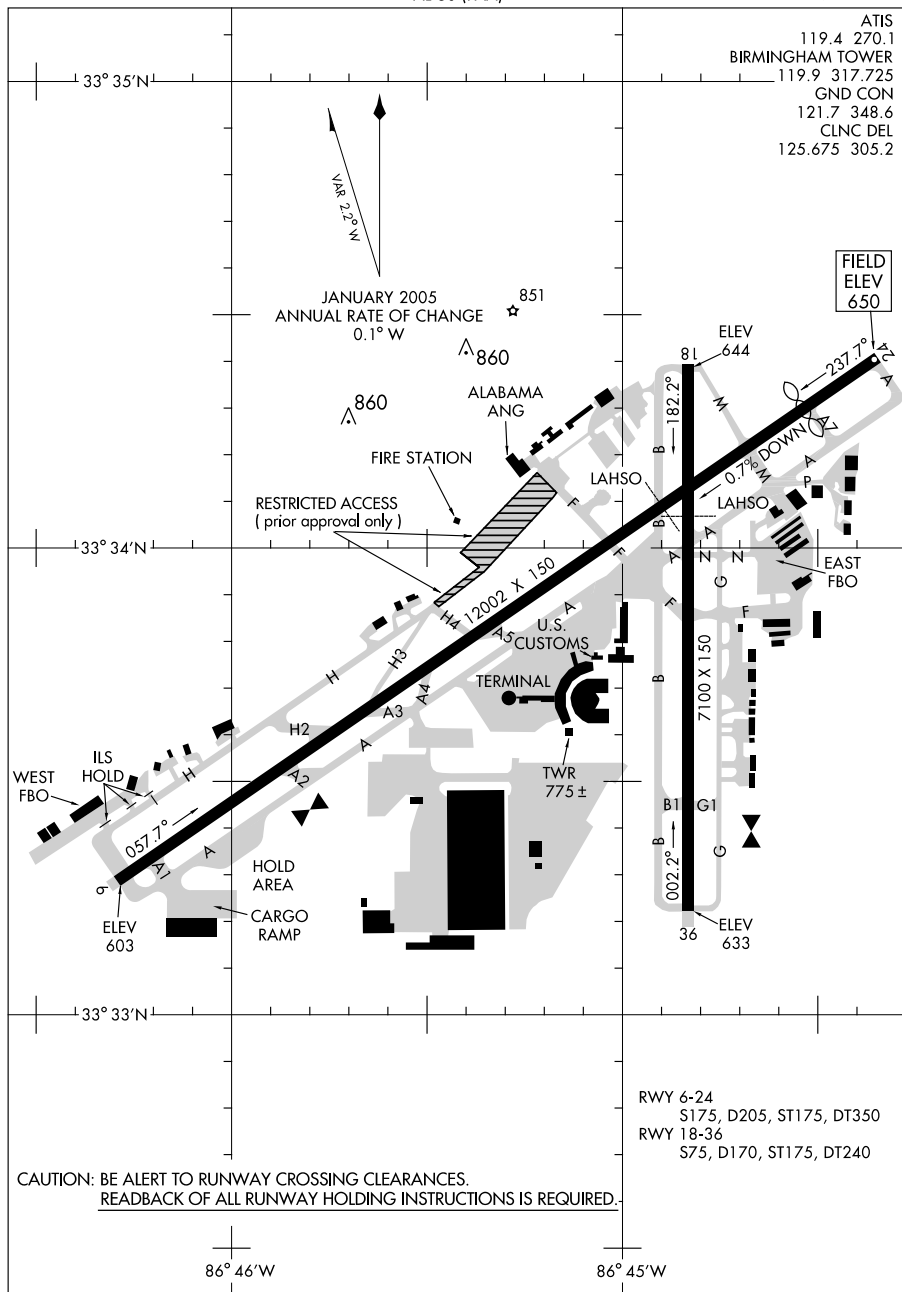
10098

AIRPORT DIAGRAM

BIRMINGHAM-SHUTTLESWORTH INTL (BHM)

AL-50 (FAA)

BIRMINGHAM, ALABAMA



AIRPORT DIAGRAM

10098

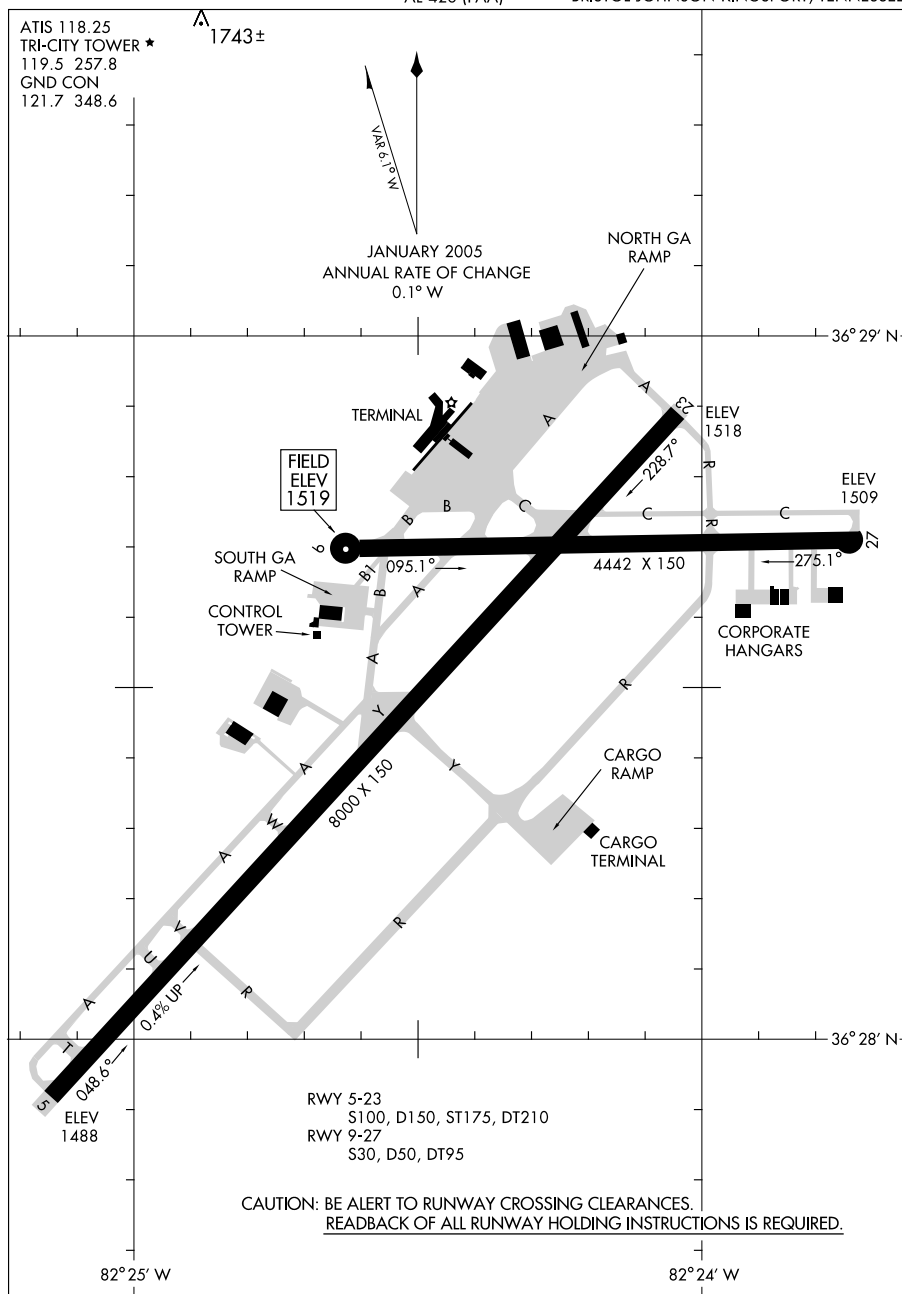
BIRMINGHAM, ALABAMA
BIRMINGHAM-SHUTTLESWORTH INTL (BHM)

BOCA RATON (BCT)
BOCA RATON, FLORIDA

07298

AIRPORT DIAGRAM

AL-426 (FAA)

BRISTOL/TRI-CITIES RGNL TN/VA (TRI)
BRISTOL-JOHNSON-KINGSPORT, TENNESSEE

AIRPORT DIAGRAM

07298

BRISTOL-JOHNSON-KINGSPORT, TENNESSEE
BRISTOL/TRI-CITIES RGNL TN/VA (TRI)

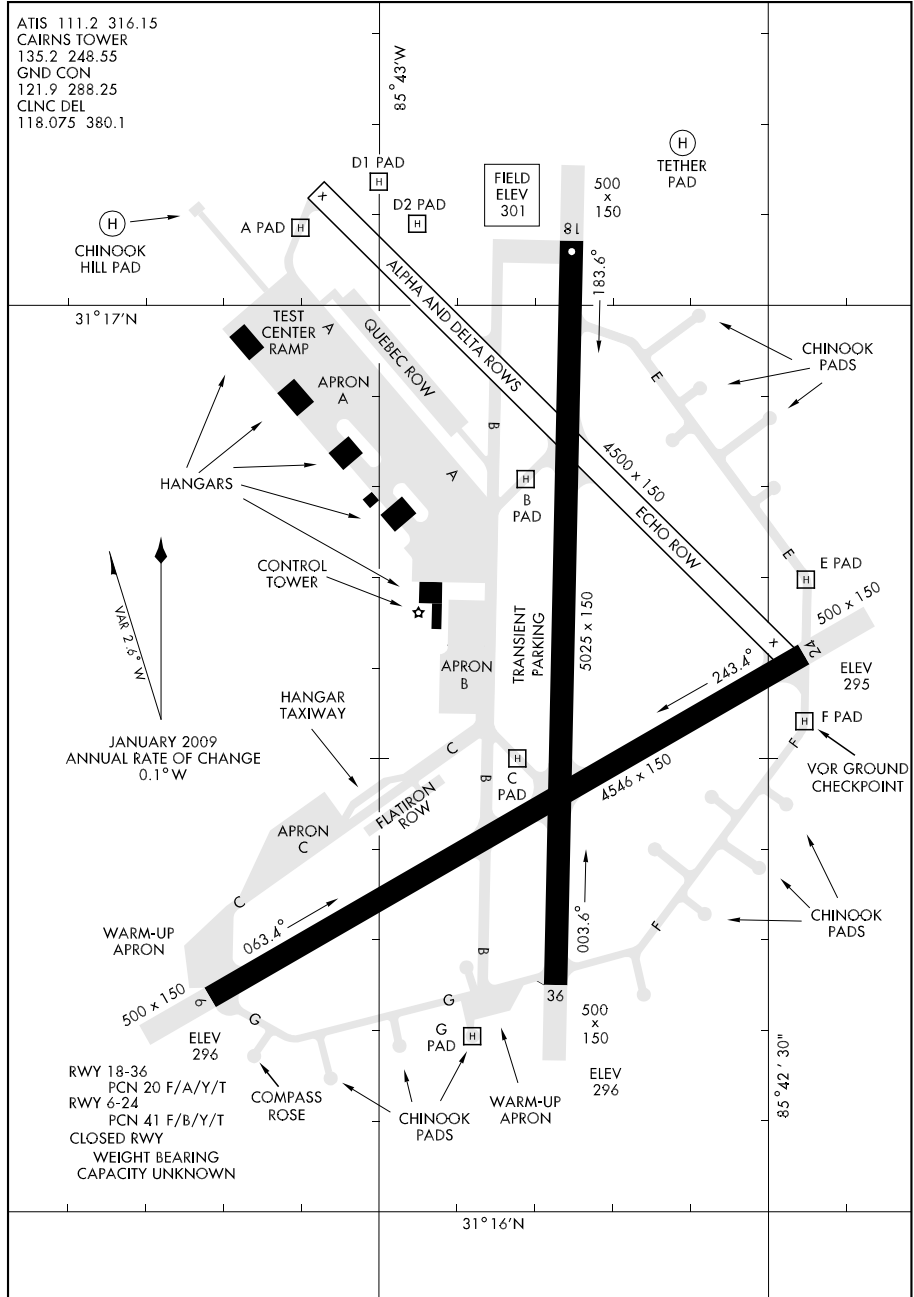
09015

AIRPORT DIAGRAM

[USA] AFD-577

CAIRNS AAF (KOZR)

FORT RUCKER, ALABAMA



AIRPORT DIAGRAM

FORT RUCKER, ALABAMA

CAIRNS AAF (KOZR)

SE, 03 JUN 2010 to 29 JUL 2010

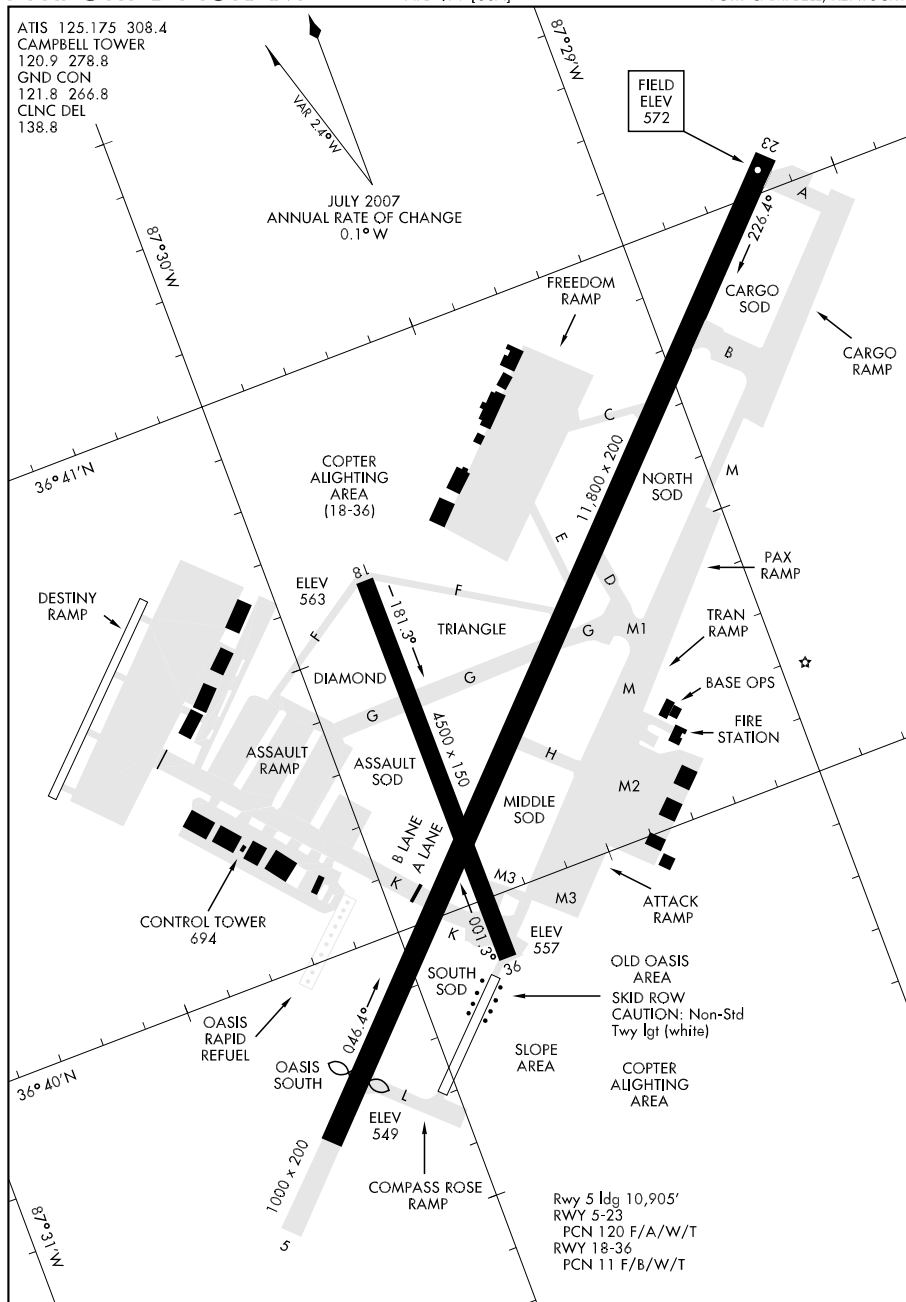
07186

AIRPORT DIAGRAM

AFD-679 [USA]

CAMPBELL AAF (KHOP)

FORT CAMPBELL, KENTUCKY



AIRPORT DIAGRAM

WGS-84 DATUM

FORT CAMPBELL, KENTUCKY

CAMPBELL AAF (KHOP)

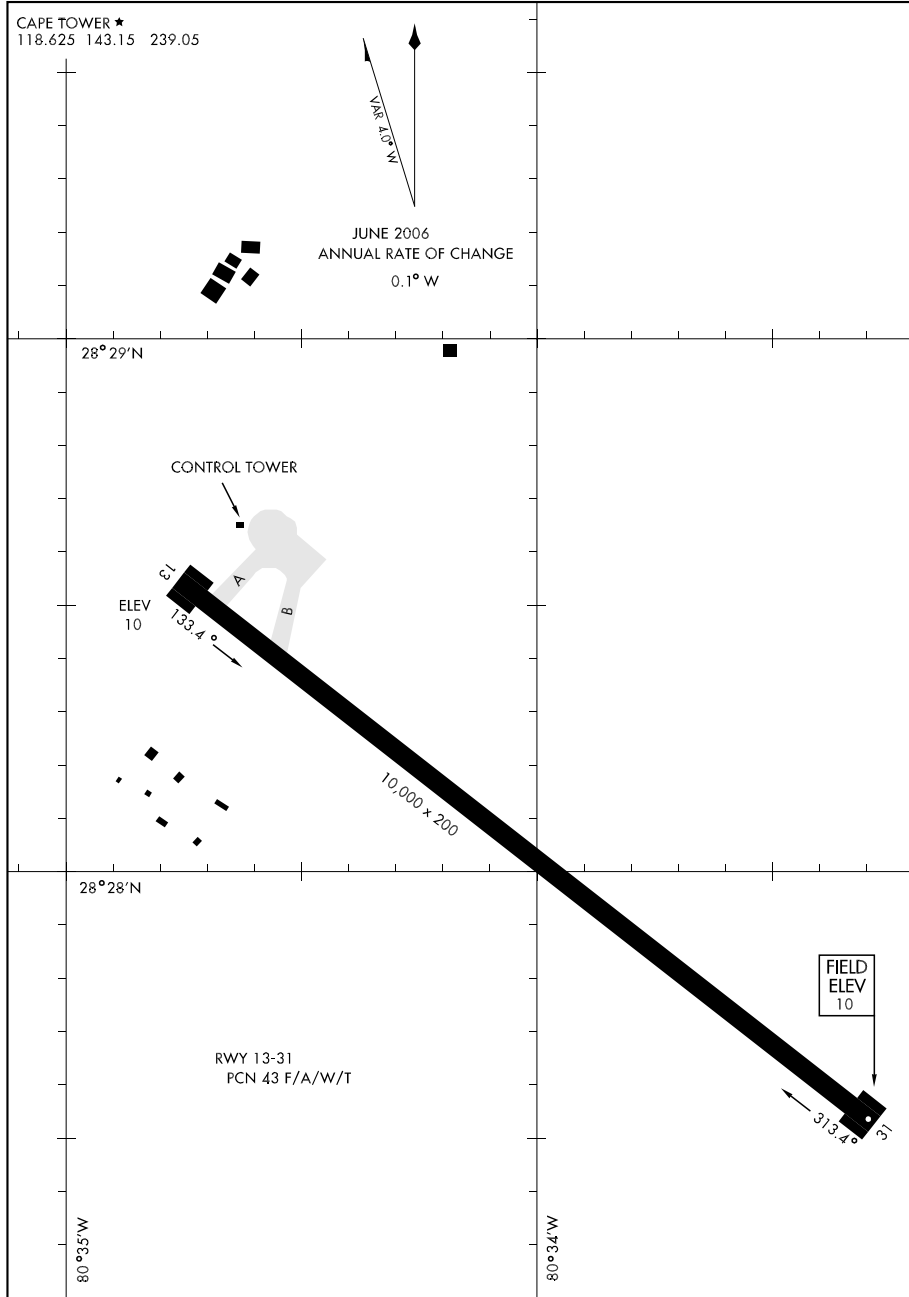
06159

CAPE CANAVERAL AFS SKID STRIP (KXMR)

AIRPORT DIAGRAM

AFD-5157 [USAF]

COCOA BEACH, FLORIDA



AIRPORT DIAGRAM

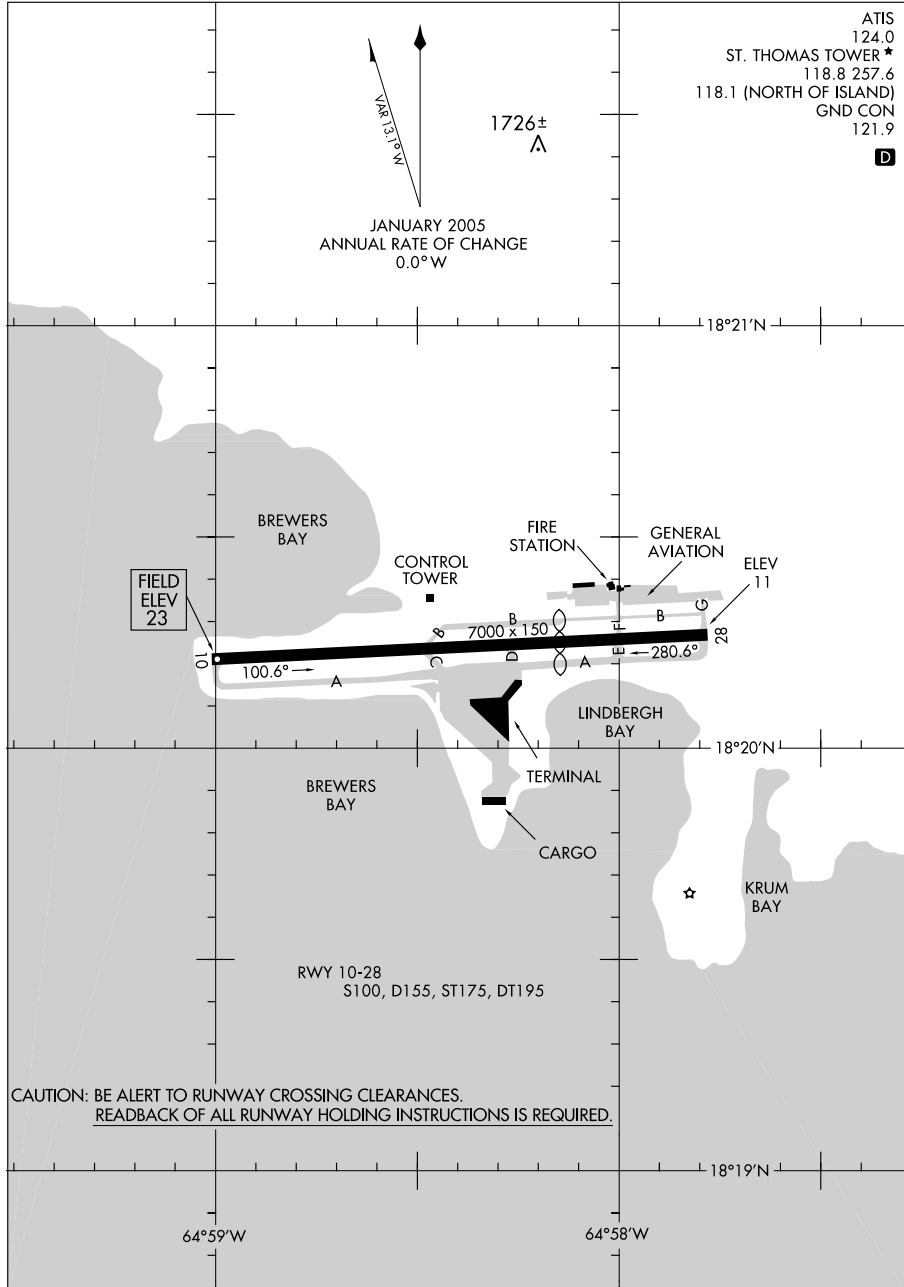
COCOA BEACH, FLORIDA

CAPE CANAVERAL AFS SKID STRIP (KXMR)

09183

AIRPORT DIAGRAM

CHARLOTTE AMALIE/ CYRIL E KING (STT)(TIST)
AL-5005 (FAA) ST. THOMAS, VIRGIN ISLANDS



AIRPORT DIAGRAM

ST. THOMAS, VIRGIN ISLANDS
CHARLOTTE AMALIE/ CYRIL E KING (STT)(TIST)

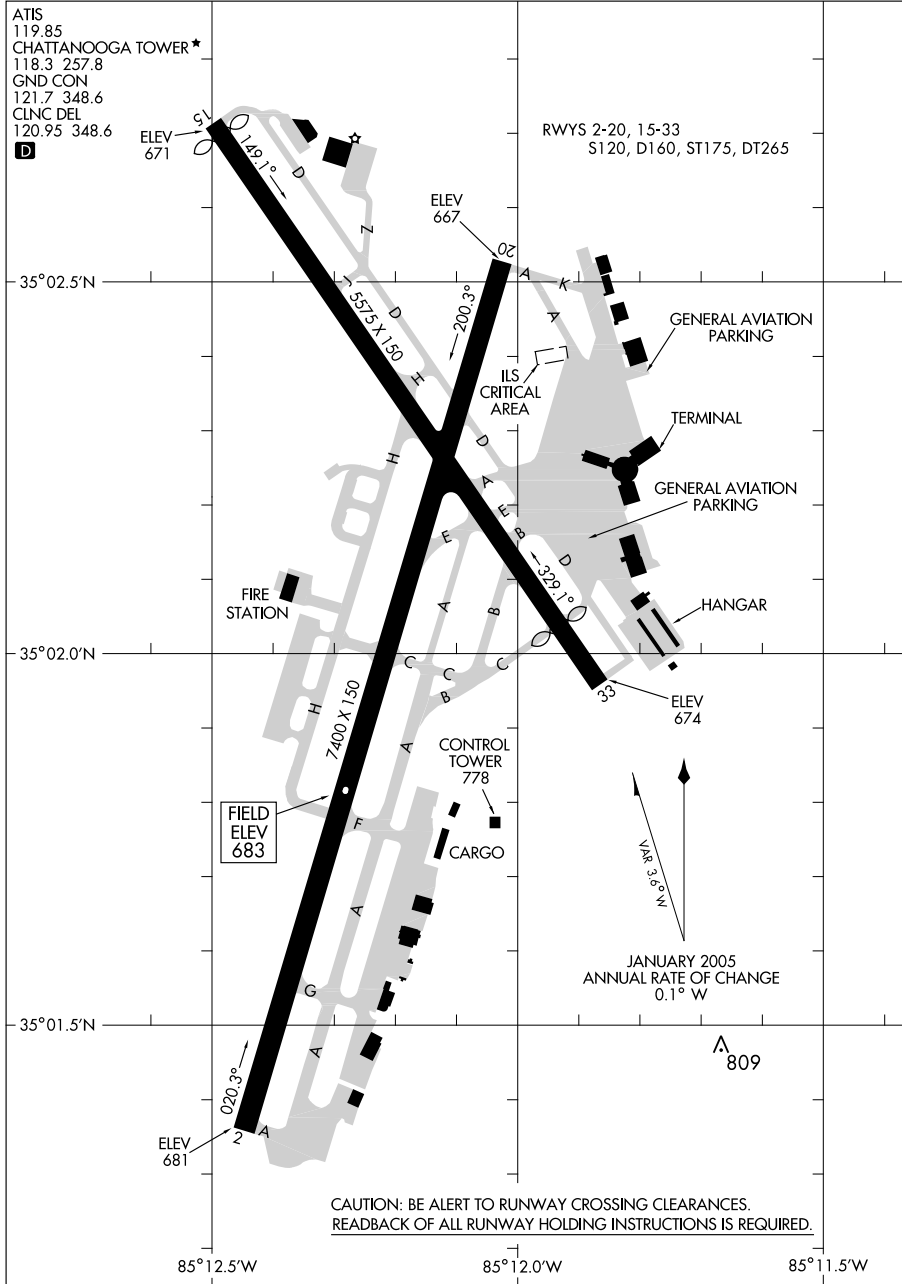
09183

09295

AIRPORT DIAGRAM

AL-79 (FAA)

CHATTANOOGA/LOVELL FIELD (CHA)
CHATTANOOGA, TENNESSEE



AIRPORT DIAGRAM

09295

CHATTANOOGA, TENNESSEE
CHATTANOOGA/LOVELL FIELD (CHA)

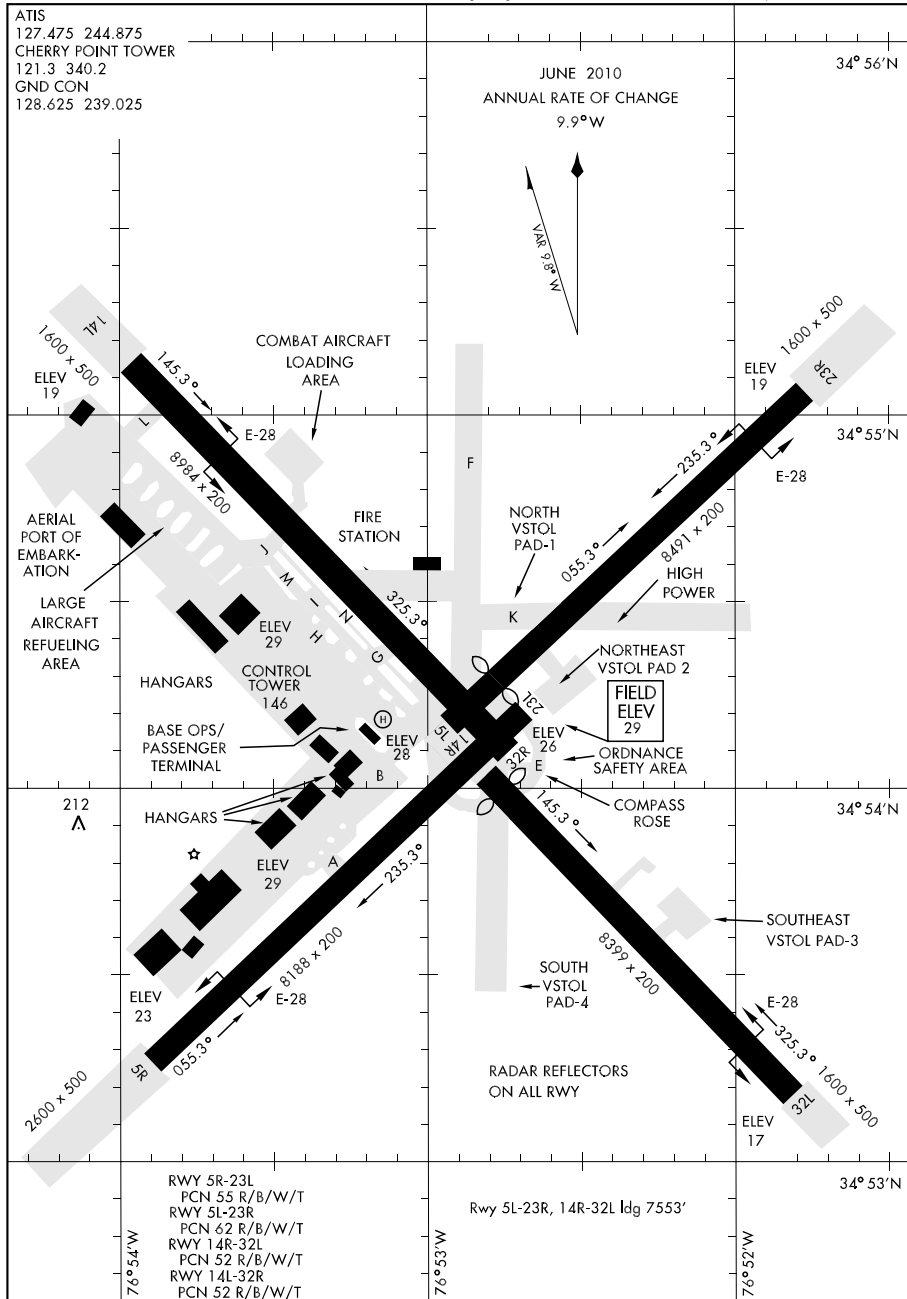
10154

AIRPORT DIAGRAM

AFD-471 [USN]

CHERRY POINT MCAS (KNKT)

CHERRY POINT, NORTH CAROLINA



AIRPORT DIAGRAM

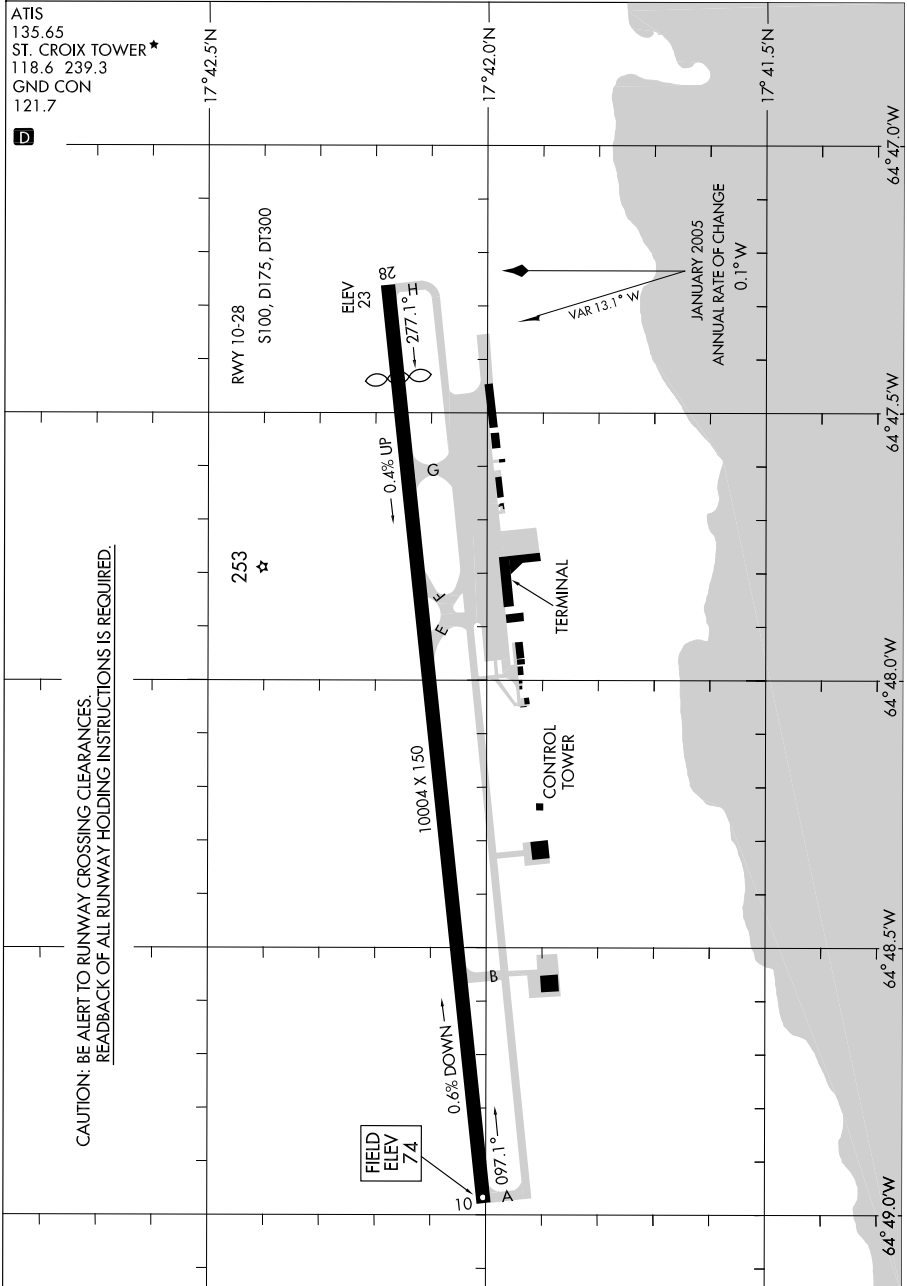
 CHERRY POINT, NORTH CAROLINA
 CHERRY POINT MCAS (KNKT)

09183

AIRPORT DIAGRAM

CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)
AL-5008 (FAA)

CHRISTIANSTED, ST. CROIX, VIRGIN ISLANDS



AIRPORT DIAGRAM

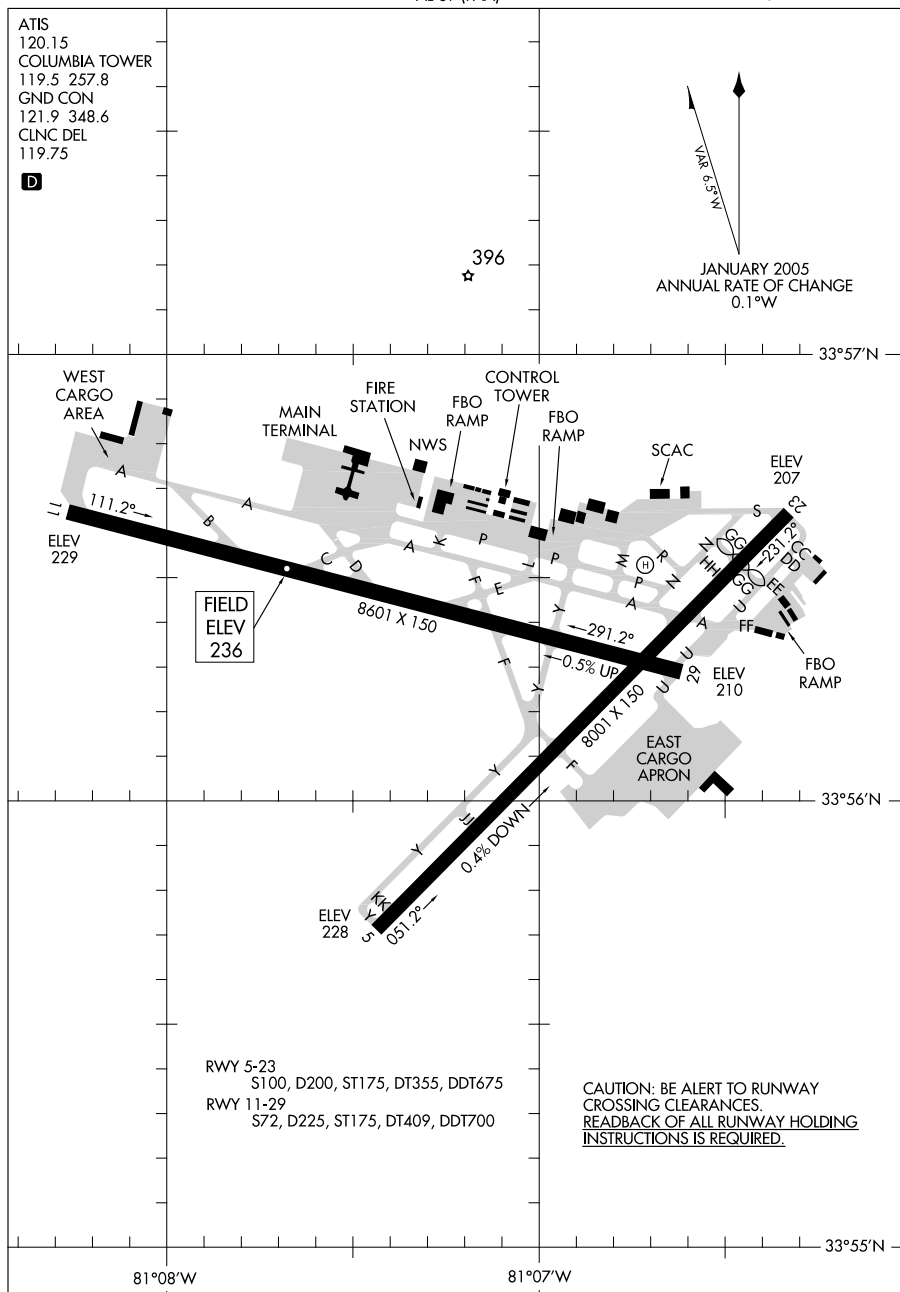
09183

CHRISTIANSTED, ST. CROIX, VIRGIN ISLANDS
CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)

10042

AIRPORT DIAGRAM

AL-89 (FAA)

COLUMBIA METROPOLITAN (CAE)
COLUMBIA, SOUTH CAROLINA

AIRPORT DIAGRAM

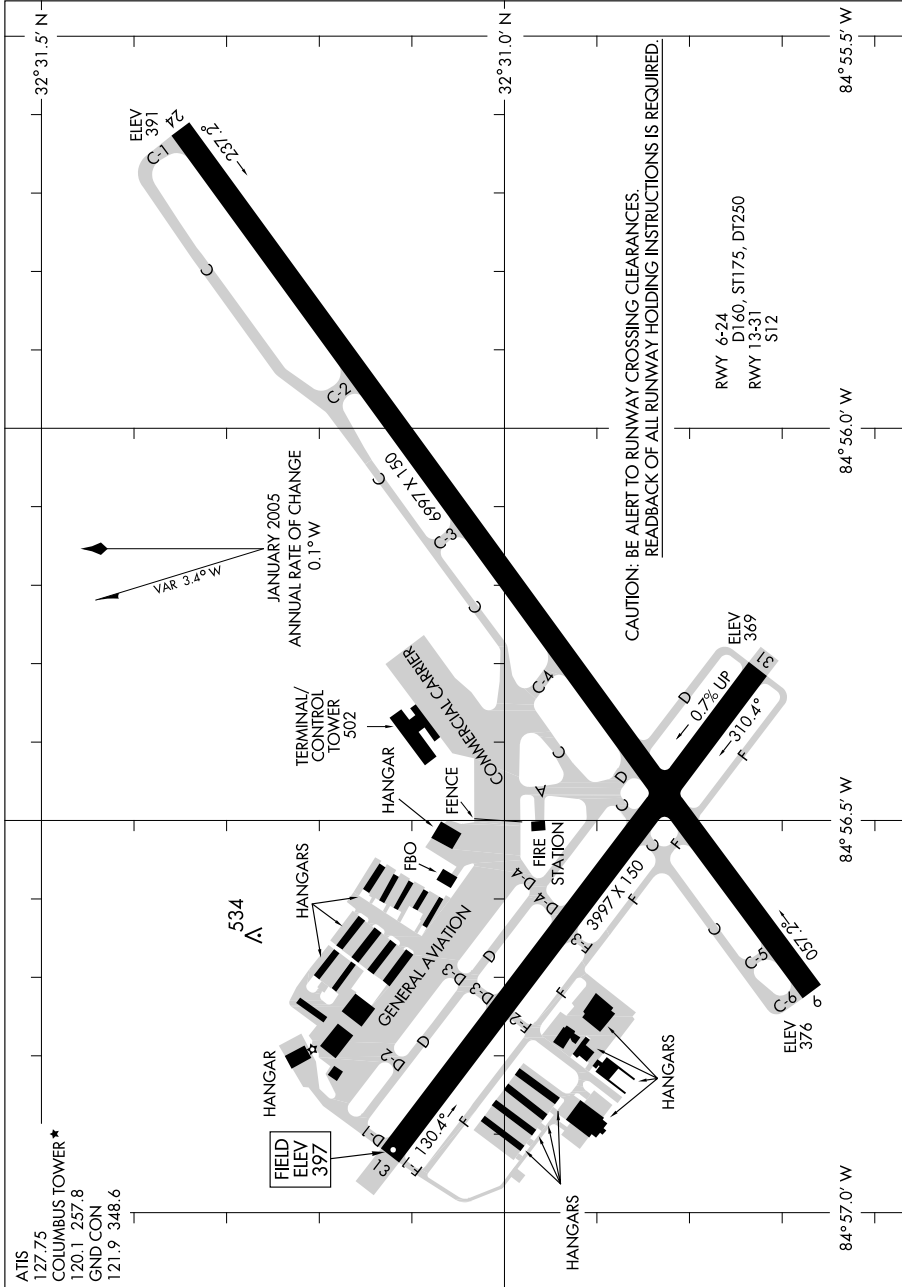
10042

COLUMBIA, SOUTH CAROLINA
COLUMBIA METROPOLITAN (CAE)

09071

AIRPORT DIAGRAM

AL-636 (FAA)

COLUMBUS METROPOLITAN (CSG)
COLUMBUS, GEORGIA

AIRPORT DIAGRAM

09071

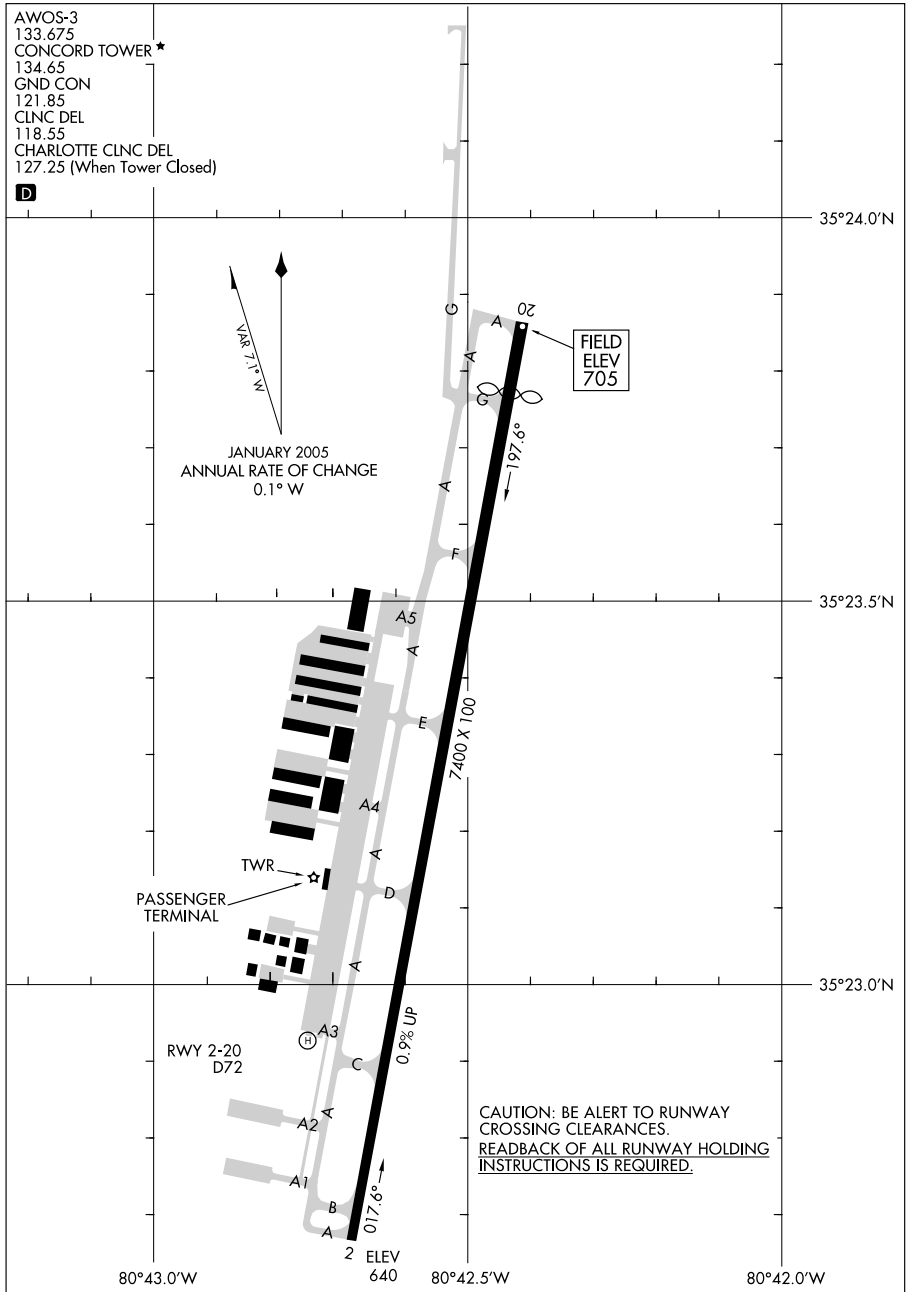
COLUMBUS, GEORGIA
COLUMBUS METROPOLITAN (CSG)

09239

AIRPORT DIAGRAM

AL-9155 (FAA)

CONCORD RGNL (JQF)
CONCORD, NORTH CAROLINA



AIRPORT DIAGRAM

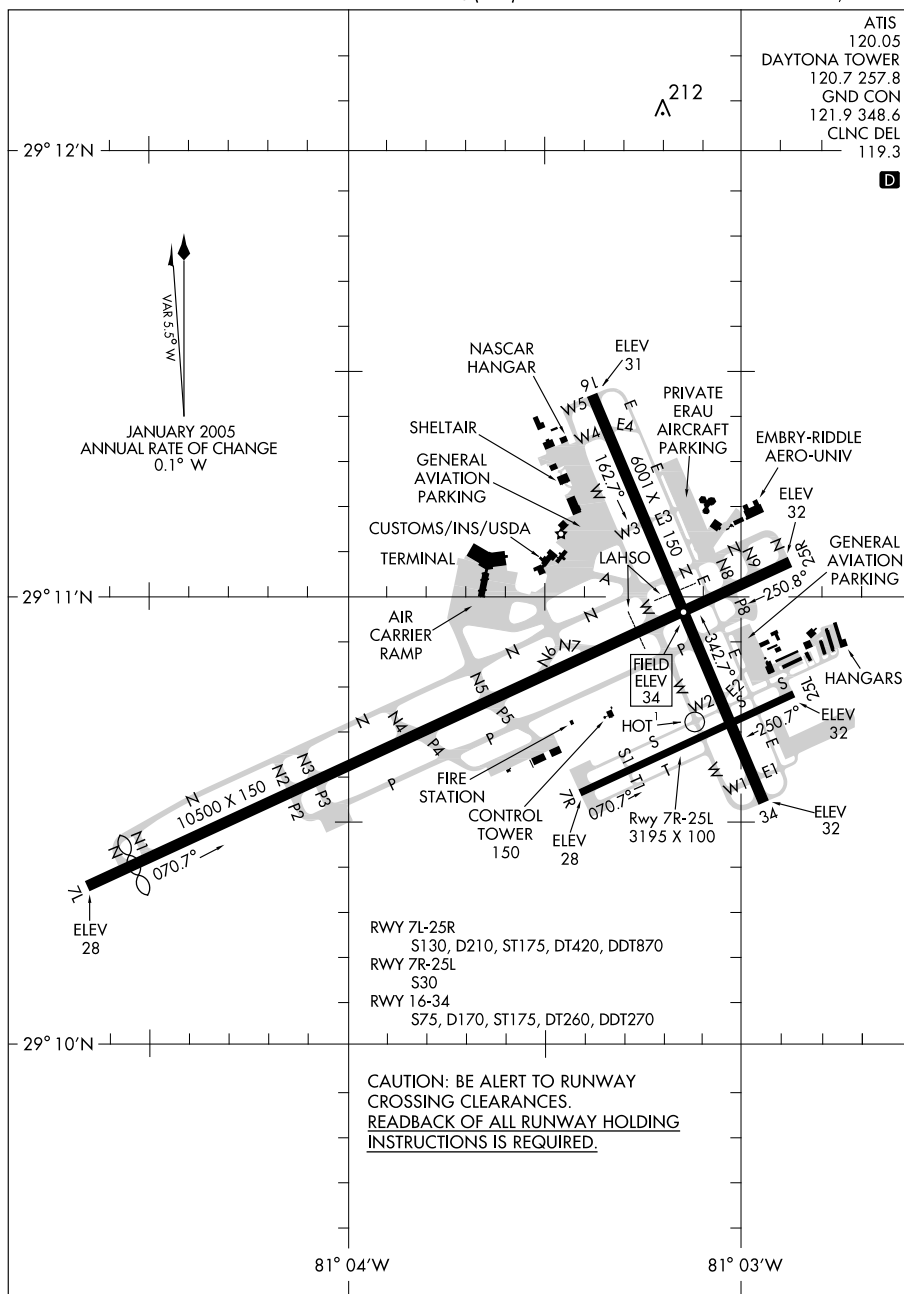
09239

CONCORD, NORTH CAROLINA
CONCORD RGNL (JQF)

09127

AIRPORT DIAGRAM

AL-110 (FAA)

DAYTONA BEACH INTL (DAB)
DAYTONA BEACH, FLORIDA

AIRPORT DIAGRAM

09127

DAYTONA BEACH, FLORIDA
DAYTONA BEACH INTL (DAB)

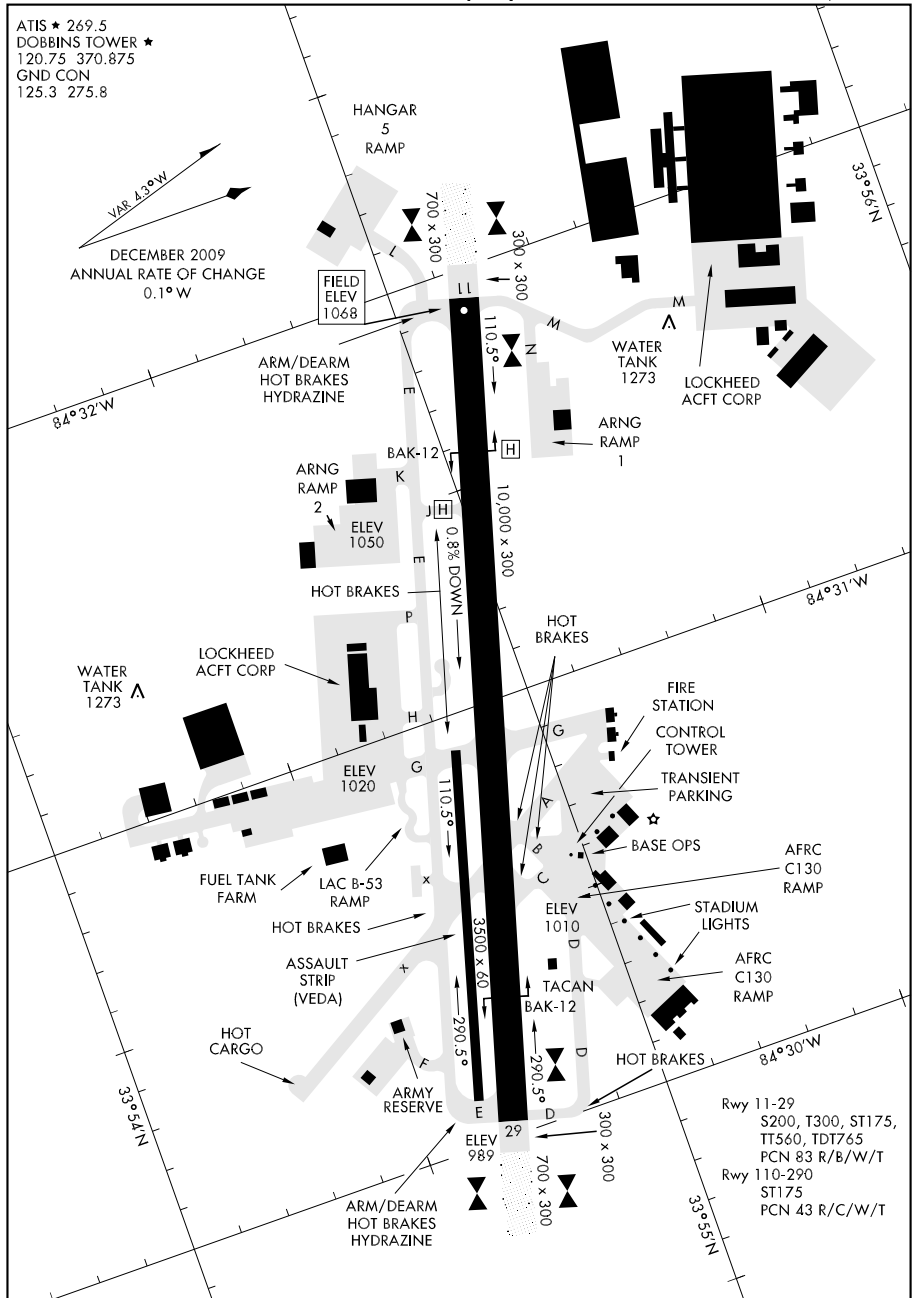
09351

AIRPORT DIAGRAM

AFD-959 [USAF]

DOBBINS ARB (KMGE)

MARIETTA, GEORGIA



AIRPORT DIAGRAM

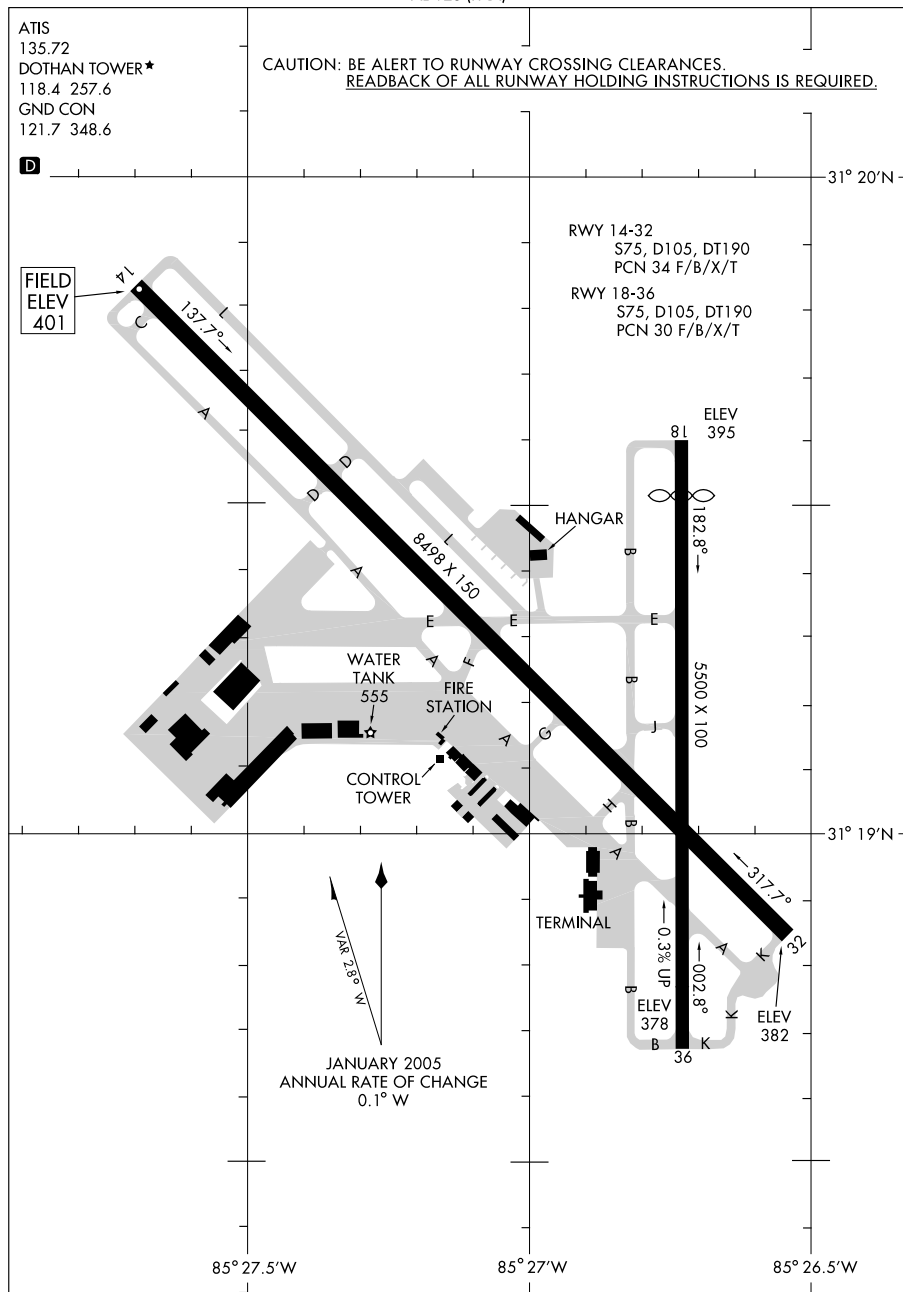
MARIETTA, GEORGIA

DOBBINS ARB (KMGE)

09295

AIRPORT DIAGRAM

AL-123 (FAA)

DOTHAN RGNL (DHN)
DOTHAN, ALABAMA

AIRPORT DIAGRAM

09295

DOTHAN, ALABAMA
DOTHAN RGNL (DHN)

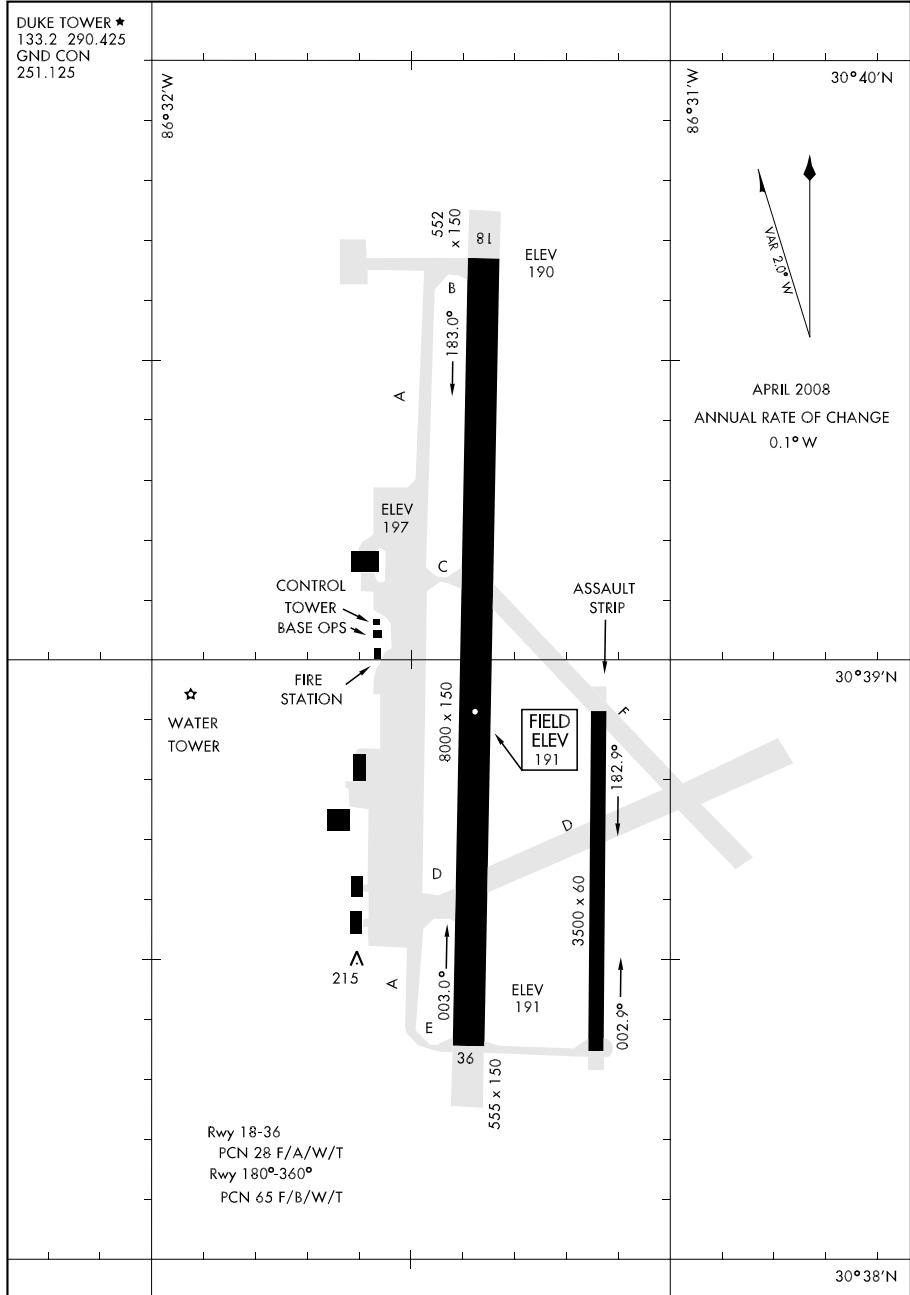
08101

DUKE FLD (EGLIN AF AUX NR3) (KEGI)

AIRPORT DIAGRAM

AFD-699 [USAF]

VALPARAISO, FLORIDA



AIRPORT DIAGRAM

VALPARAISO, FLORIDA

DUKE FLD (EGLIN AF AUX NR3) (KEGI)

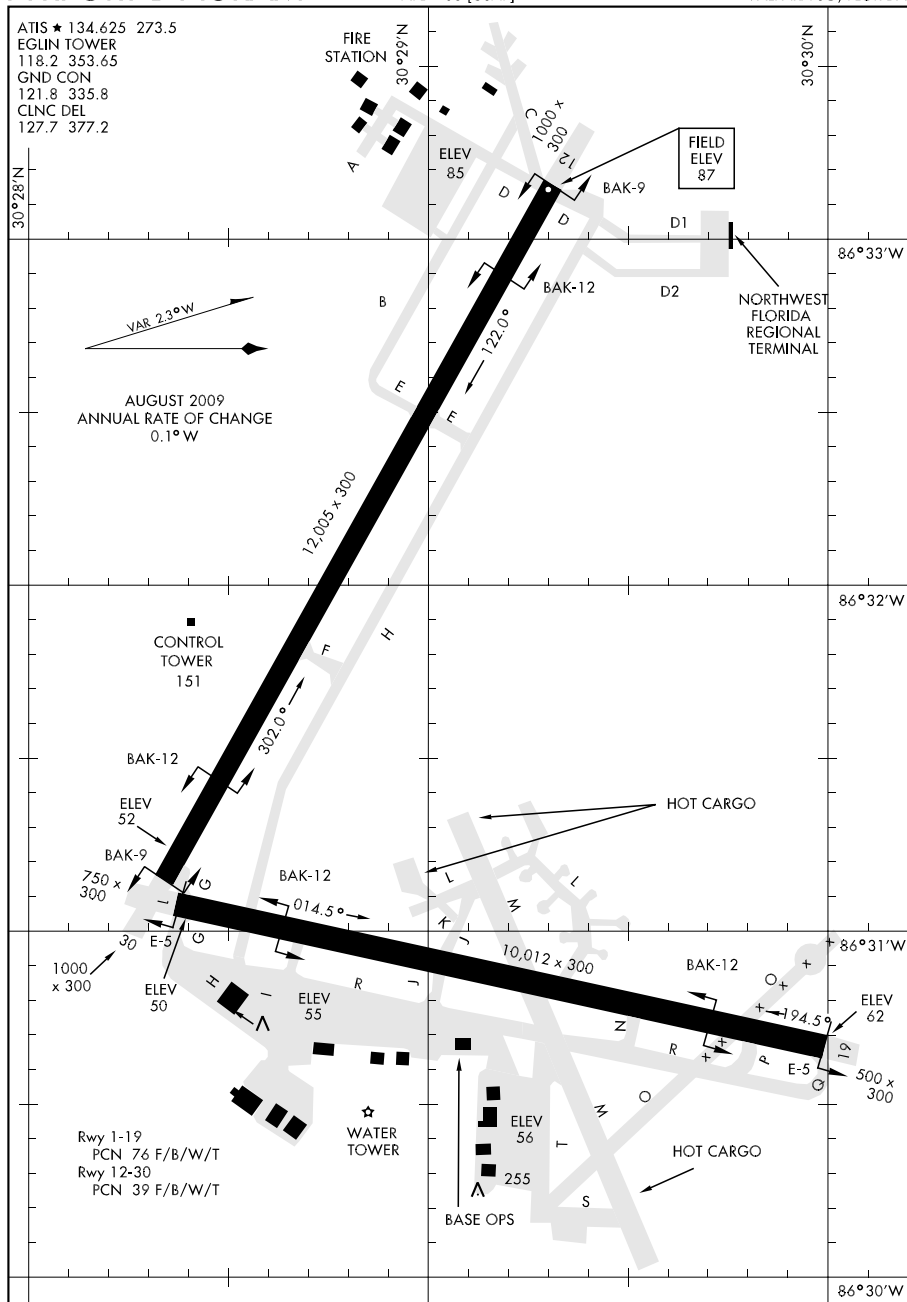
09239

AIRPORT DIAGRAM

AFD-436 [USAF]

EGLIN AFB (KVPS)

VALPARAISO, FLORIDA



AIRPORT DIAGRAM

VALPARAISO, FLORIDA

EGLIN AFB (KVPS)

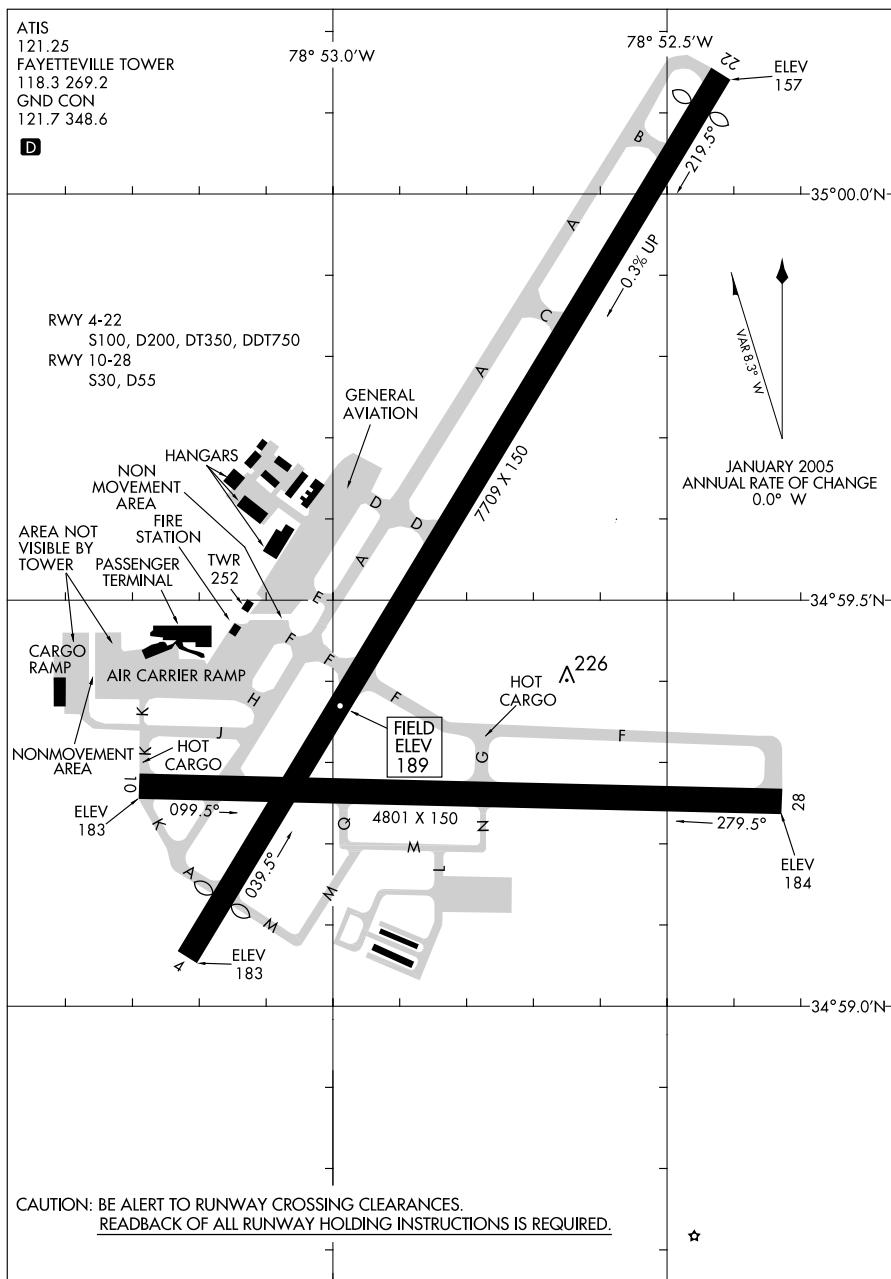
09239

AIRPORT DIAGRAM

AL-690 (FAA)

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

FAYETTEVILLE, NORTH CAROLINA



AIRPORT DIAGRAM

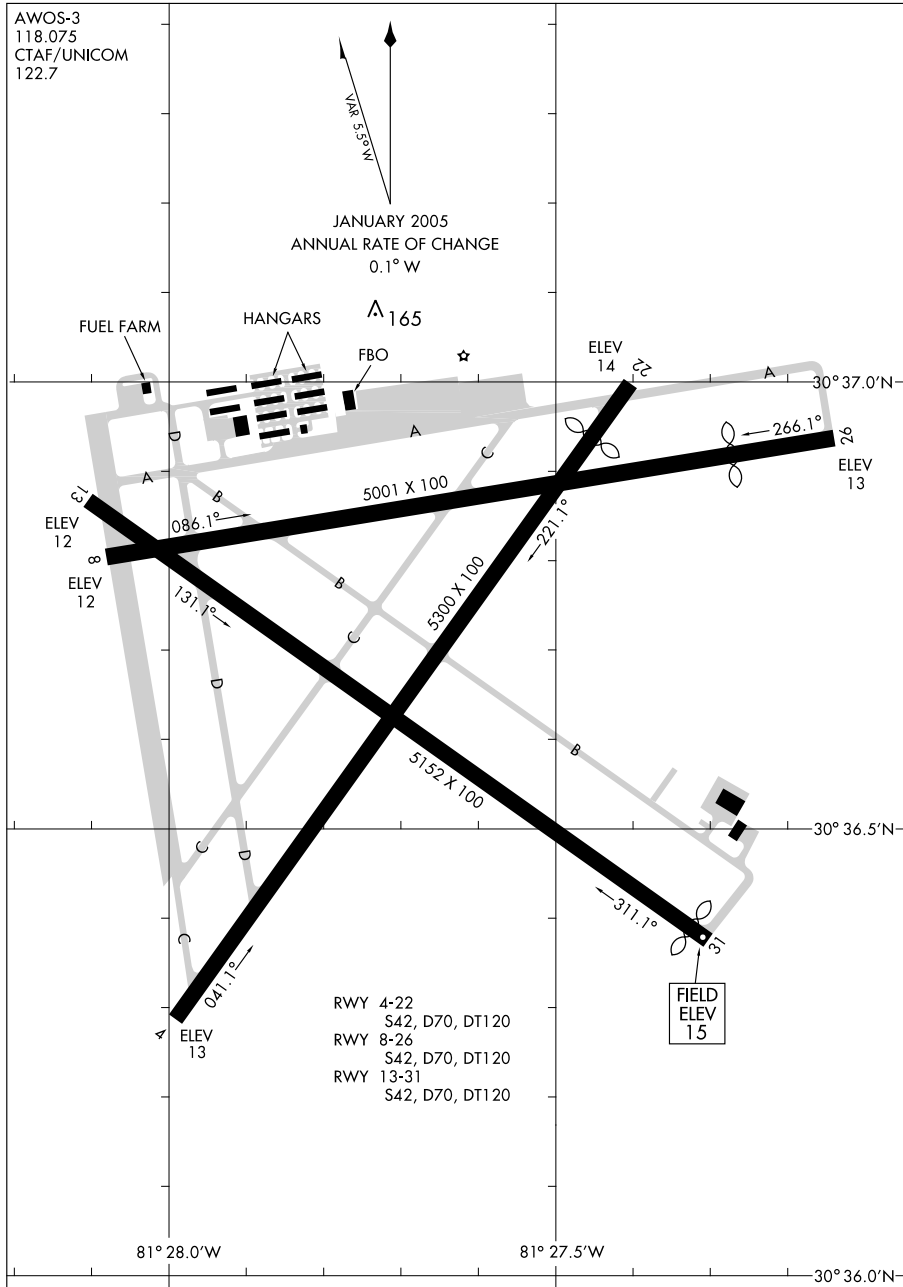
09239

FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

10154

AIRPORT DIAGRAM

FERNANDINA BEACH MUNI (FHB)
FERNANDINA BEACH, FLORIDA

AIRPORT DIAGRAM

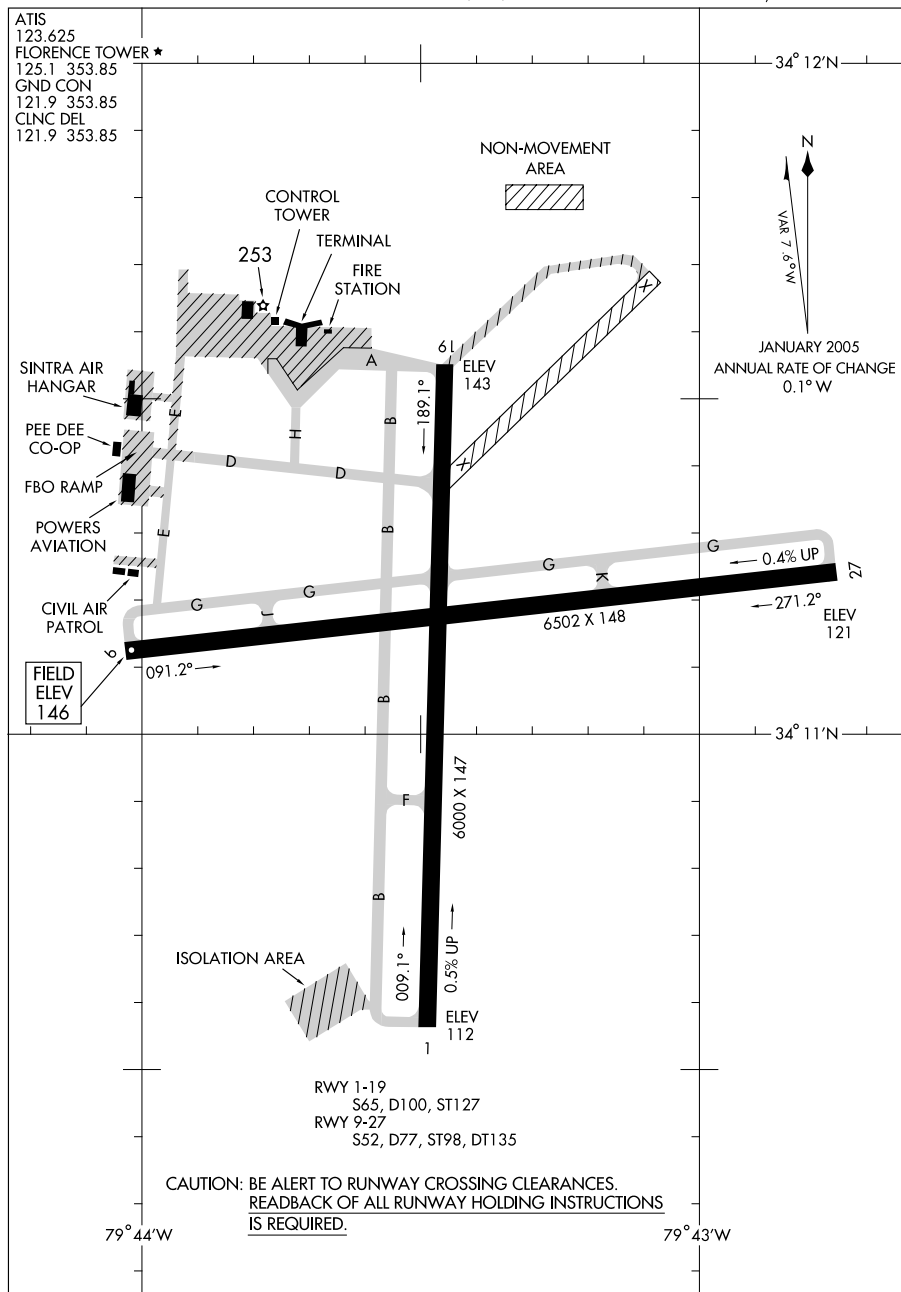
10154

FERNANDINA BEACH, FLORIDA
FERNANDINA BEACH MUNI (FHB)

09015

AIRPORT DIAGRAM

AL-145 (FAA)

FLORENCE RGNL (F'LO)
FLORENCE, SOUTH CAROLINA

AIRPORT DIAGRAM

09015

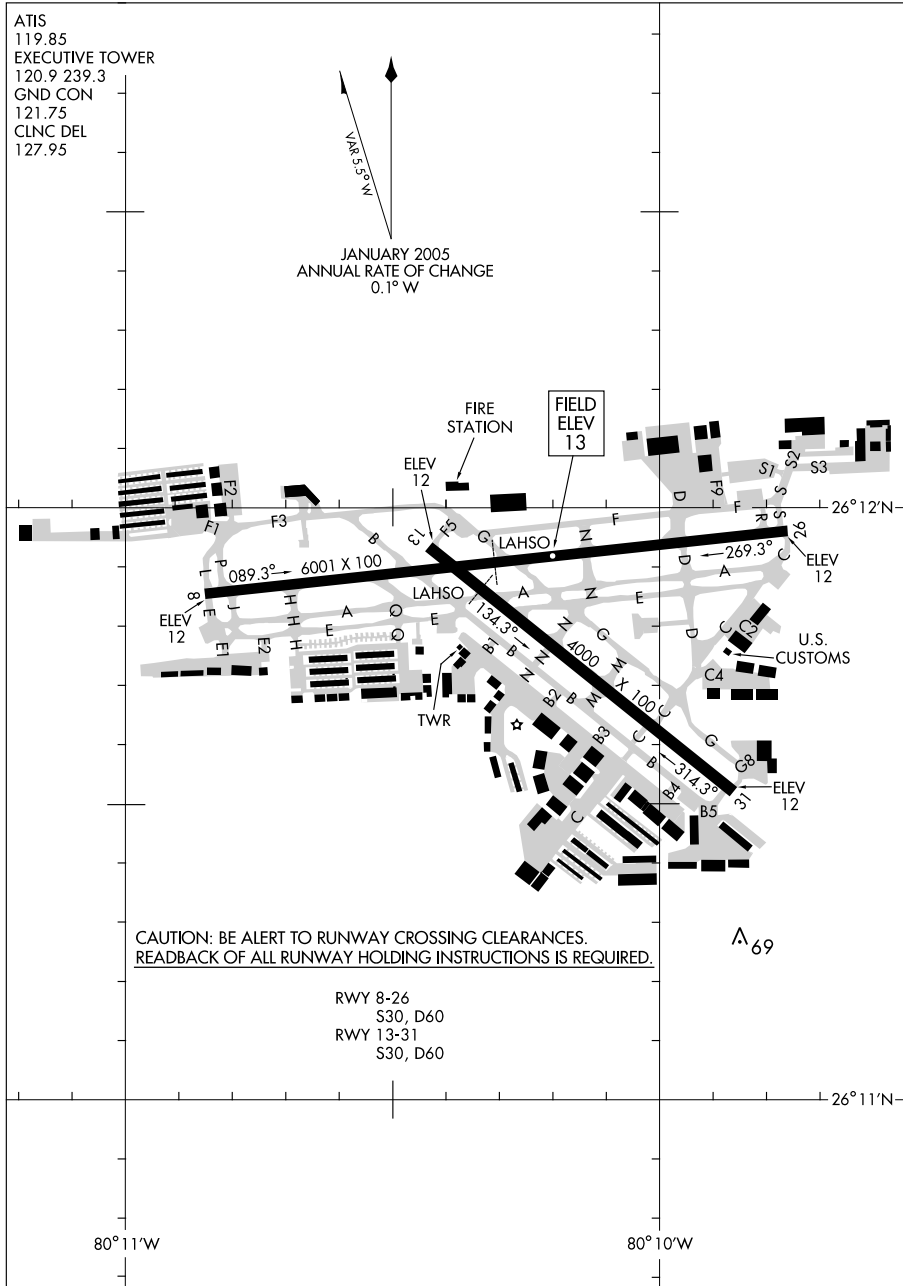
FLORENCE, SOUTH CAROLINA
FLORENCE RGNL (F'LO)

10154

AIRPORT DIAGRAM

AL-5942 (FAA)

FORT LAUDERDALE EXECUTIVE (FXE)
FORT LAUDERDALE, FLORIDA



AIRPORT DIAGRAM

10154

FORT LAUDERDALE, FLORIDA
FORT LAUDERDALE EXECUTIVE (FXE)

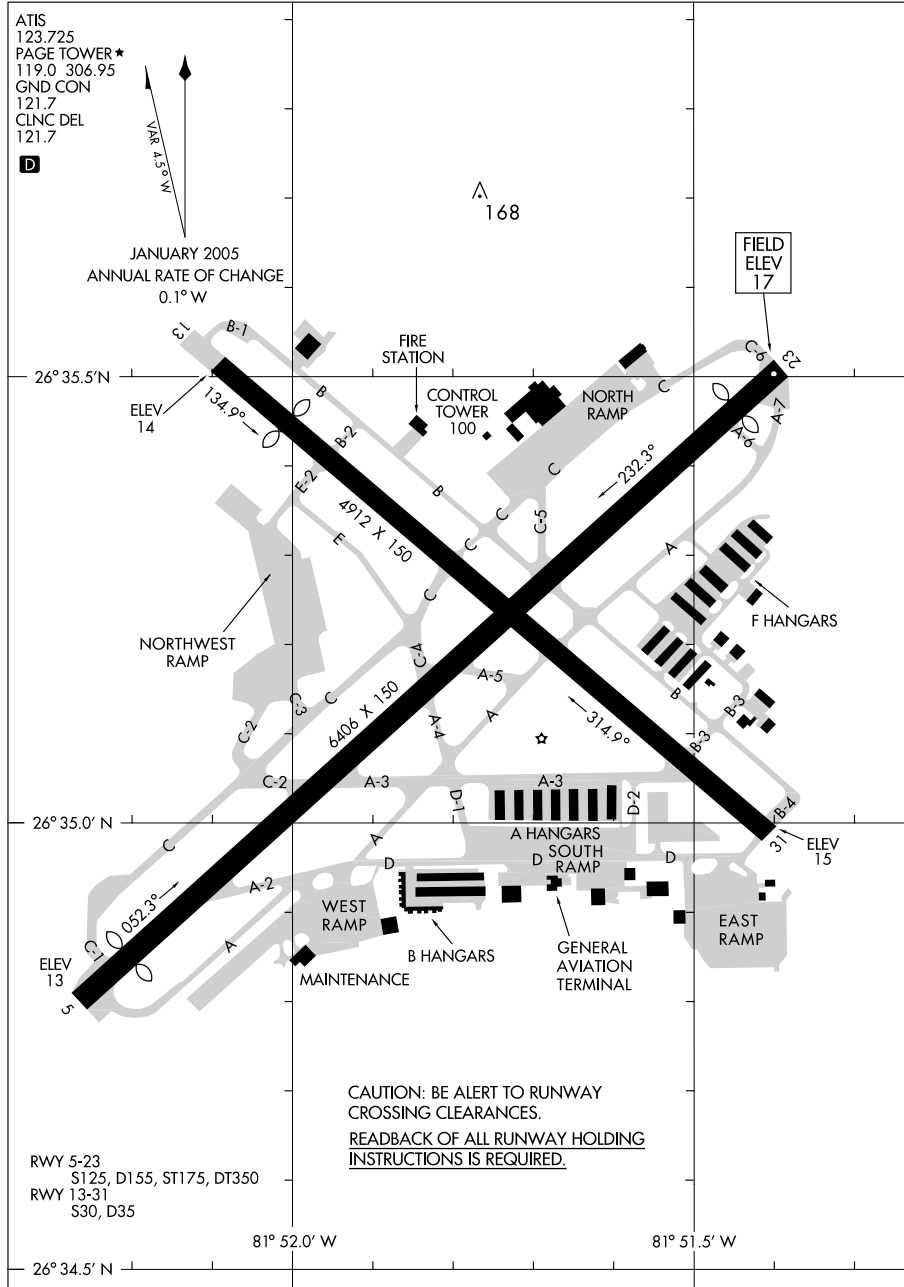
09239

AIRPORT DIAGRAM

AL-154 (FAA)

FORT MYERS/PAGE FIELD (FMY)

FORT MYERS, FLORIDA



AIRPORT DIAGRAM

09239

FORT MYERS, FLORIDA
FORT MYERS/PAGE FIELD (FMY)

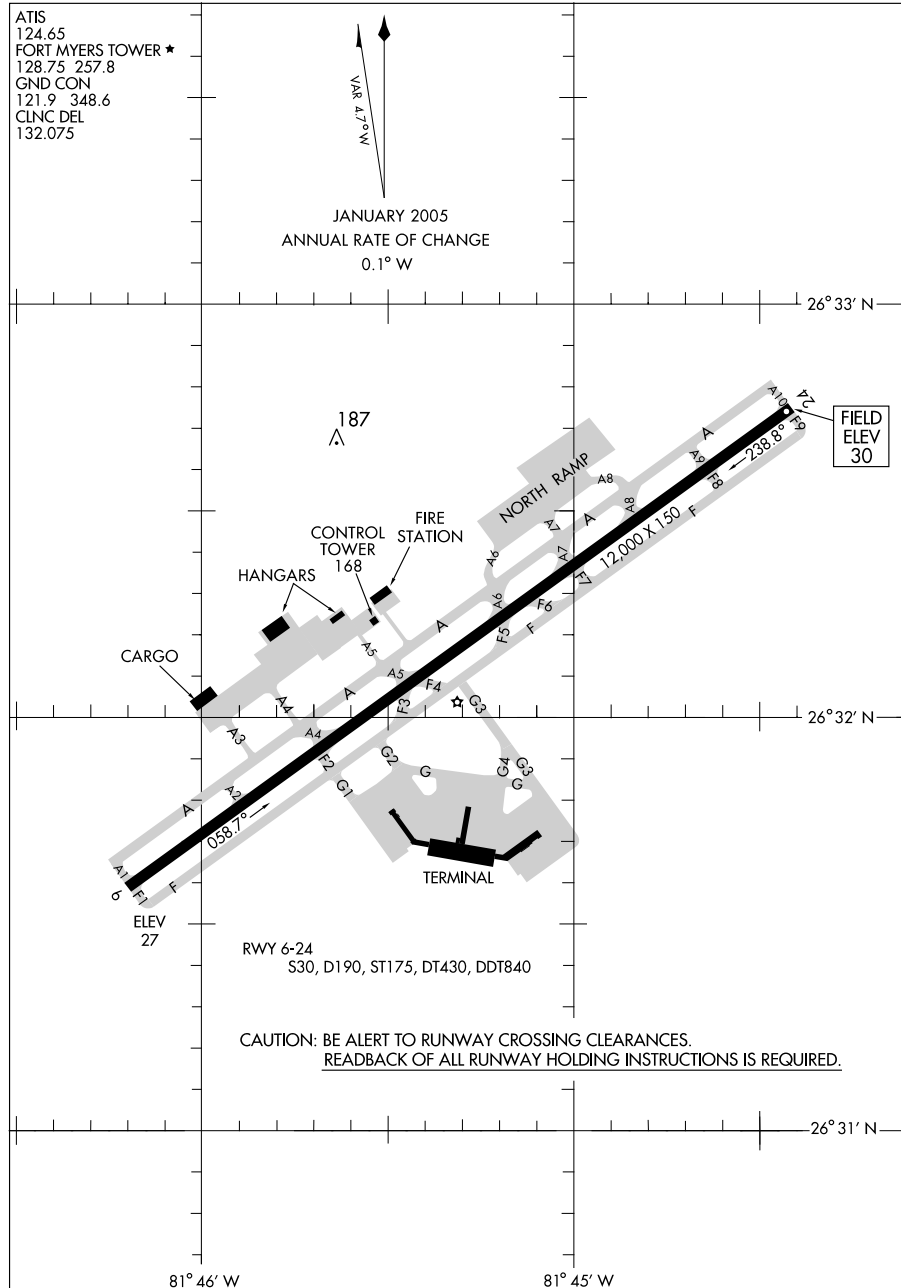
09183

AIRPORT DIAGRAM

FORT MYERS/SOUTHWEST FLORIDA INTL (R.S.W)

AL-6757 (FAA)

FORT MYERS, FLORIDA



AIRPORT DIAGRAM

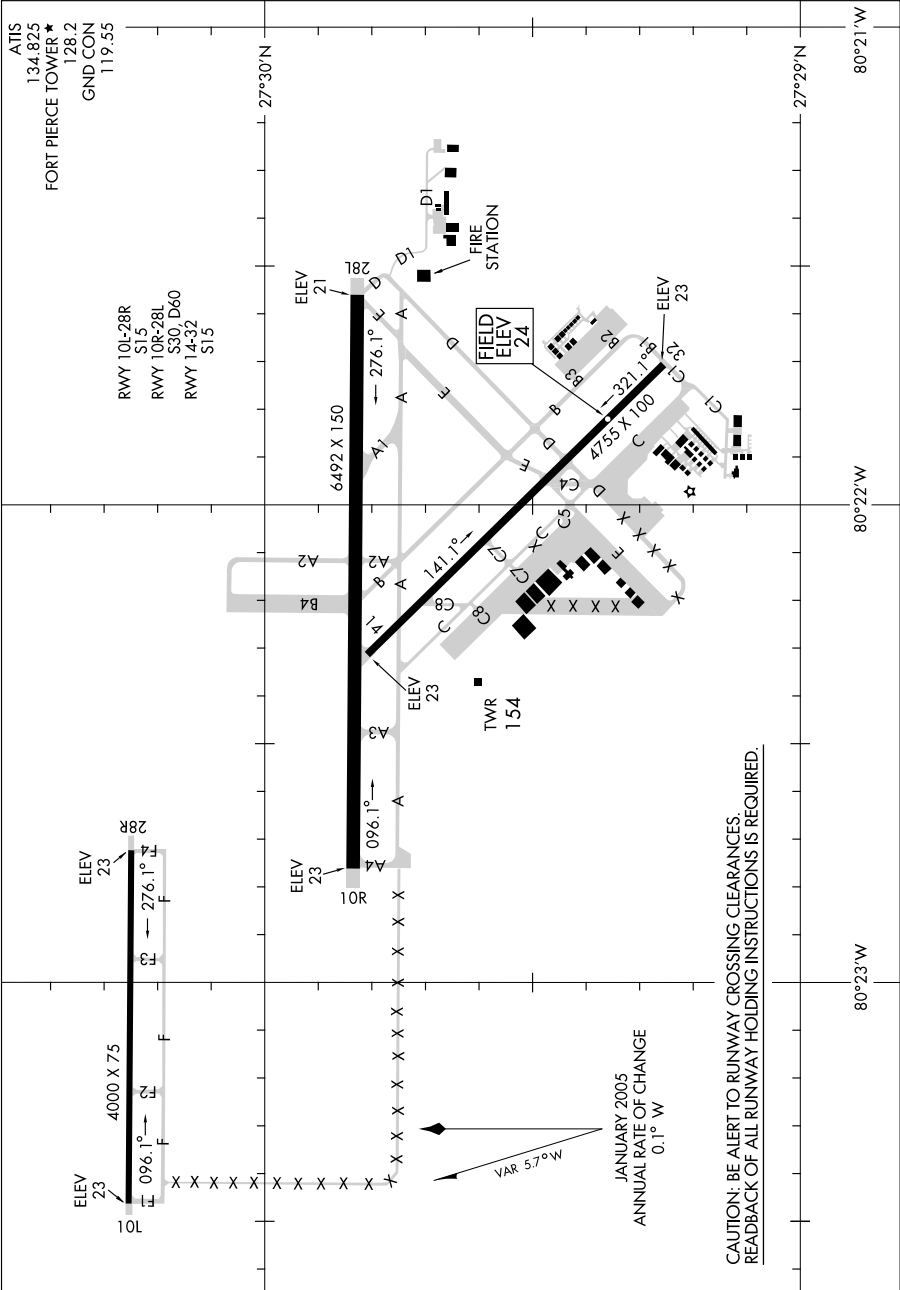
09183

 FORT MYERS, FLORIDA
 FORT MYERS/SOUTHWEST FLORIDA INTL (R.S.W)

10042

AIRPORT DIAGRAM

FORT PIERCE/ST. LUCIE COUNTY INTL (FPR)
AL-5343 (FAA)
FORT PIERCE, FLORIDA



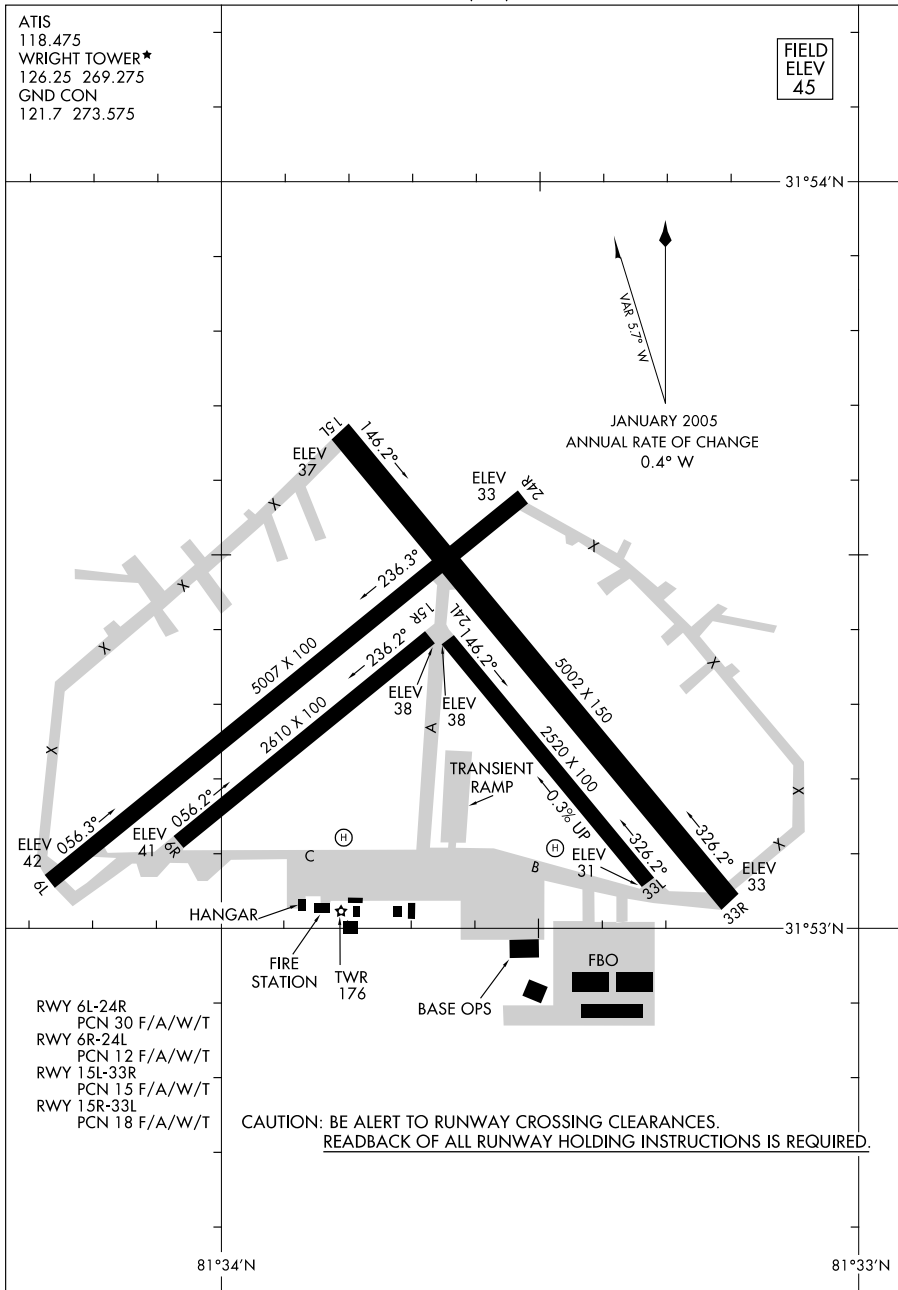
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

FORT PIERCE, FLORIDA
FORT PIERCE/ST. LUCIE COUNTY INTL (FPR)

10042

10098 FORT STEWART(HINESVILLE)/ WRIGHT AAF(FORT STEWART)/MIDCOAST RGNL(LHW)
AIRPORT DIAGRAM AL-5170 (FAA) FORT STEWART(HINESVILLE), GEORGIA



AIRPORT DIAGRAM

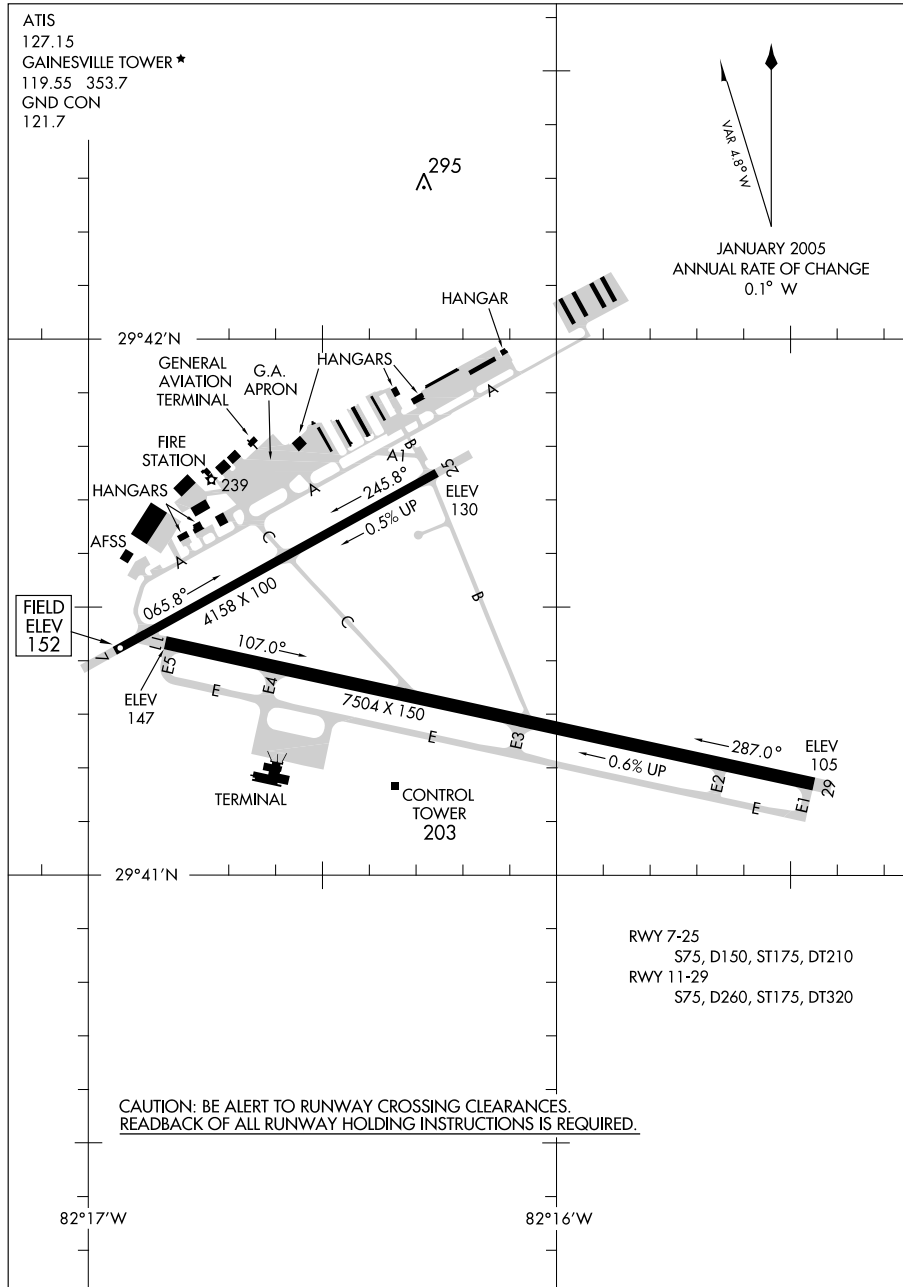
10098

FORT STEWART(HINESVILLE), GEORGIA
 FORT STEWART(HINESVILLE)/ WRIGHT AAF(FORT STEWART)/MIDCOAST RGNL(LHW)

10042

AIRPORT DIAGRAM

AL-973 (FAA)

GAINESVILLE RGNL (GNTV)
GAINESVILLE, FLORIDA

AIRPORT DIAGRAM

10042

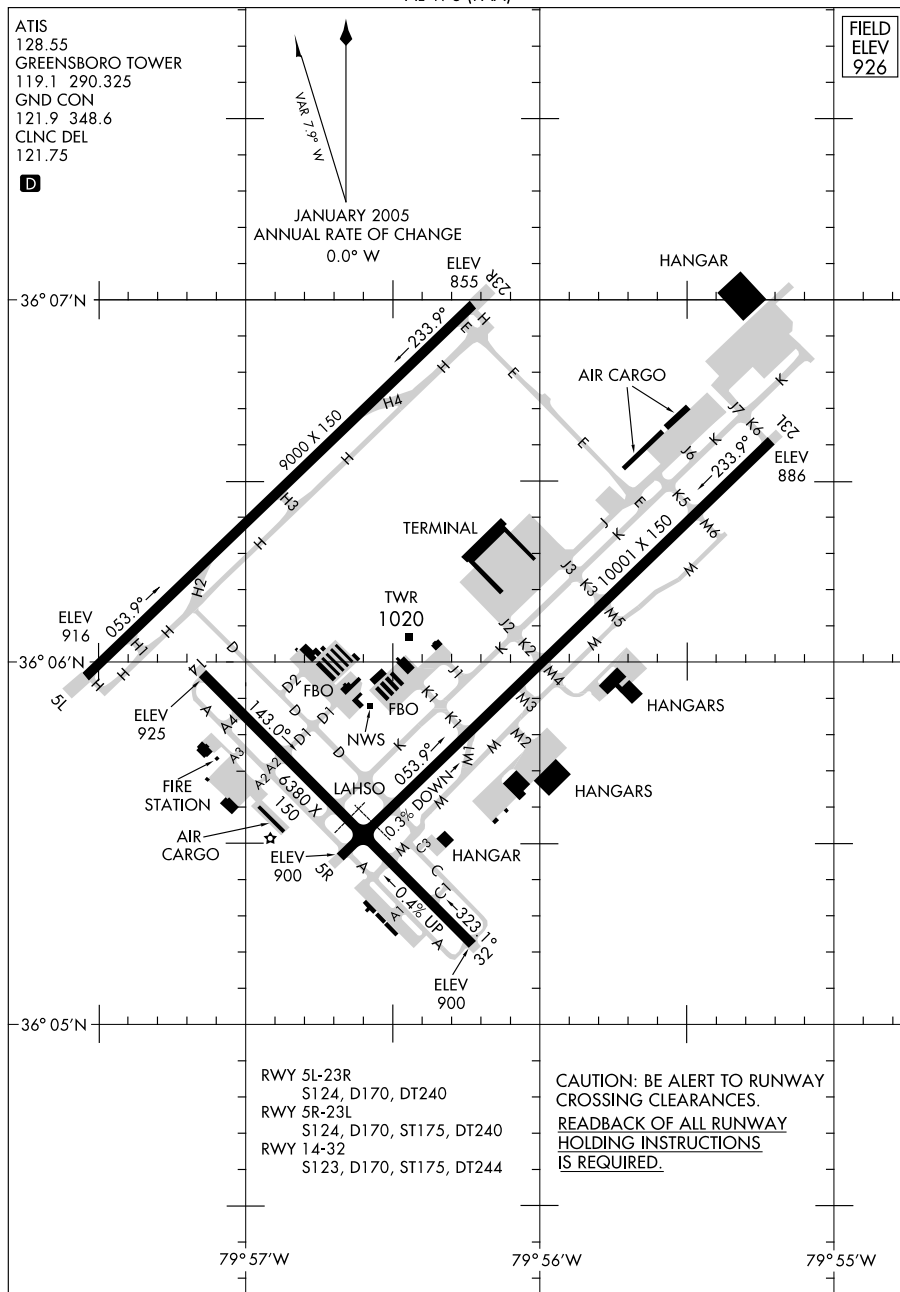
GAINESVILLE, FLORIDA
GAINESVILLE RGNL (GNTV)

10042

AIRPORT DIAGRAM

GREENSBORO/PIEDMONT TRIAD INTL (GSO)
GREENSBORO, NORTH CAROLINA

AL-178 (FAA)



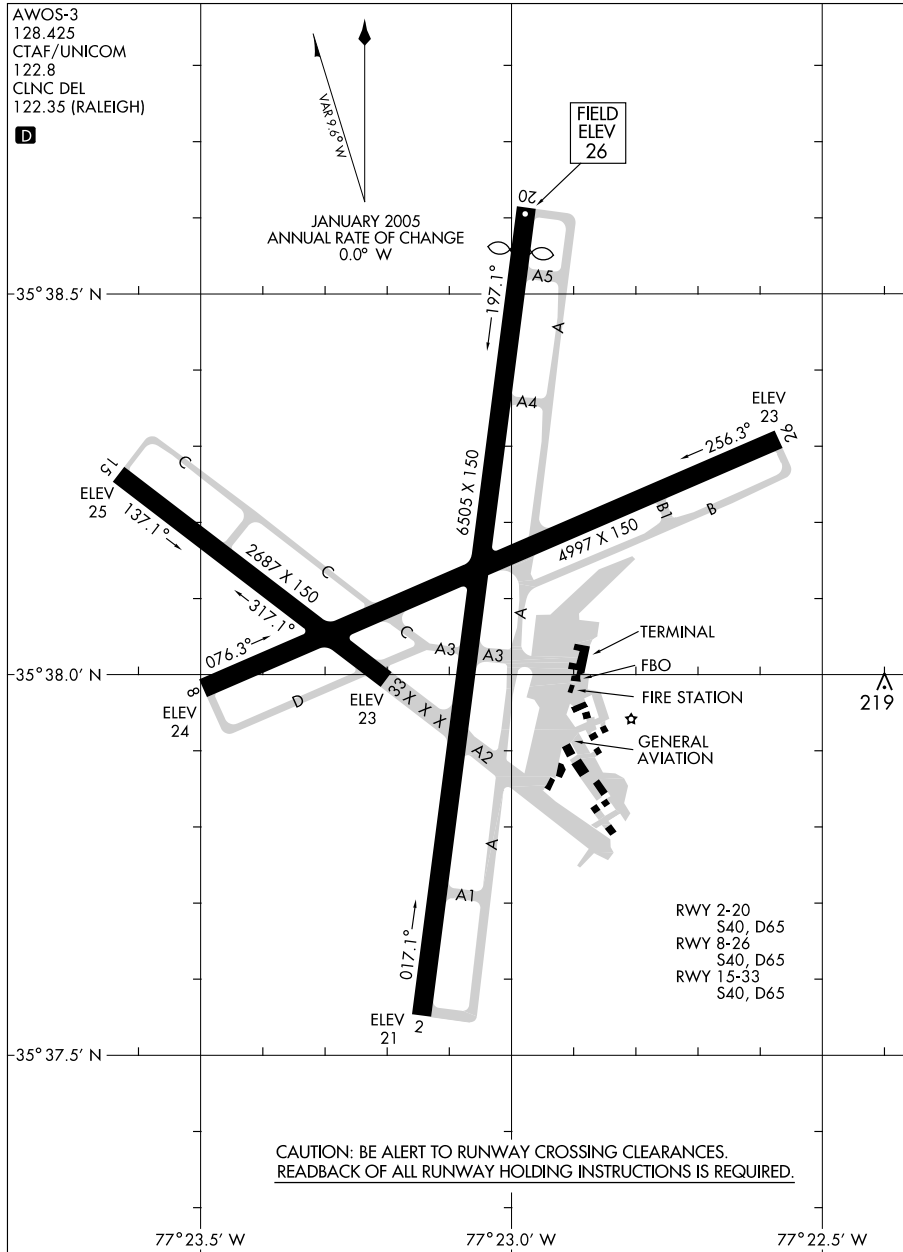
AIRPORT DIAGRAM

10042

GREENSBORO, NORTH CAROLINA
GREENSBORO/PIEDMONT TRIAD INTL (GSO)

AIRPORT DIAGRAM

GREENVILLE/PITT-GREENVILLE (PGV)
GREENVILLE, NORTH CAROLINA



AIRPORT DIAGRAM

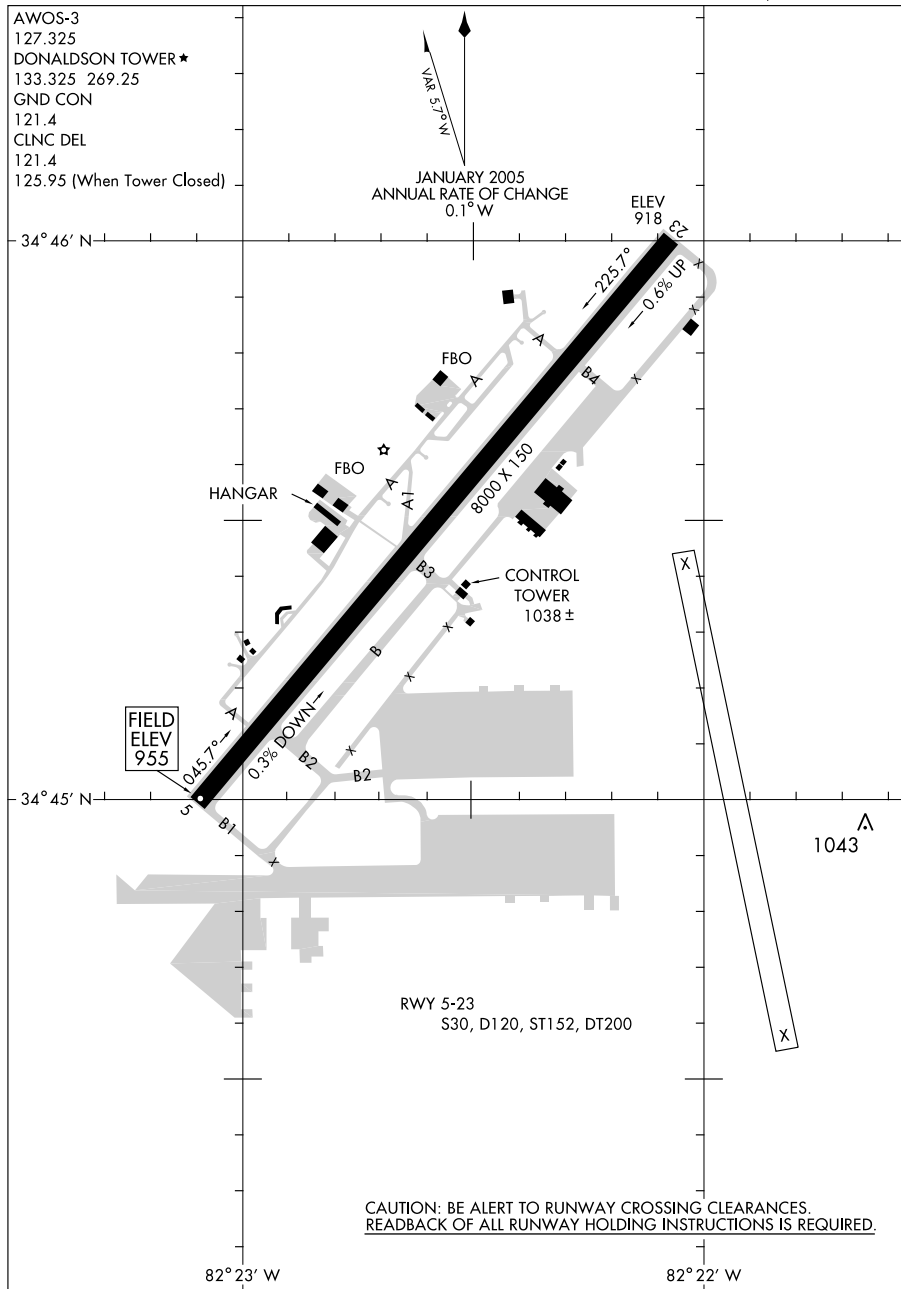
GREENVILLE, NORTH CAROLINA
GREENVILLE/PITT-GREENVILLE (PGV)

09071

AIRPORT DIAGRAM

GREENVILLE/ DONALDSON CENTER (G'Y'H)

GREENVILLE, SOUTH CAROLINA



AIRPORT DIAGRAM

09071

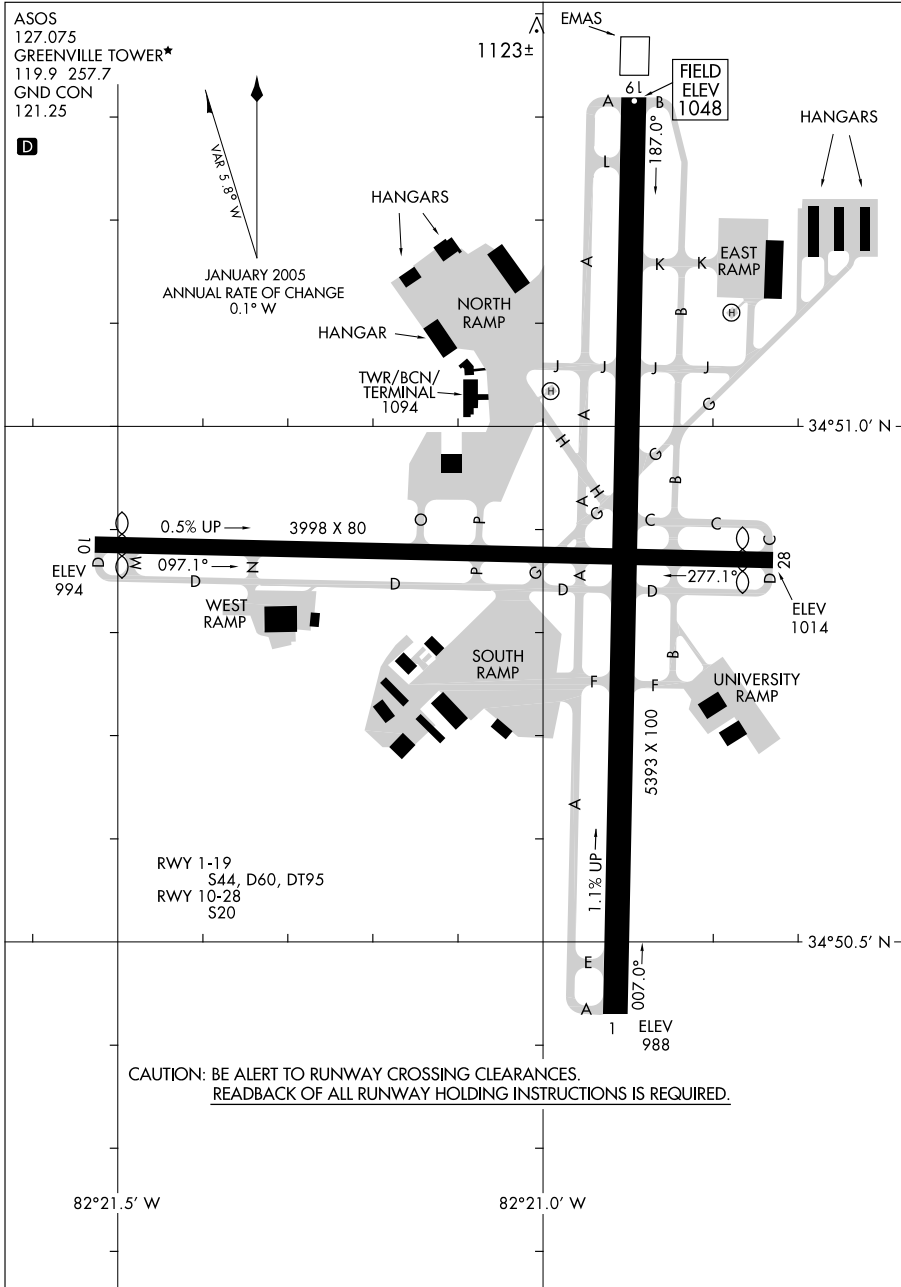
GREENVILLE, SOUTH CAROLINA
GREENVILLE/ DONALDSON CENTER (G'Y'H)

10042

AIRPORT DIAGRAM

AL-180 (FAA)

GREENVILLE DOWNTOWN (GMU)
GREENVILLE, SOUTH CAROLINA



AIRPORT DIAGRAM

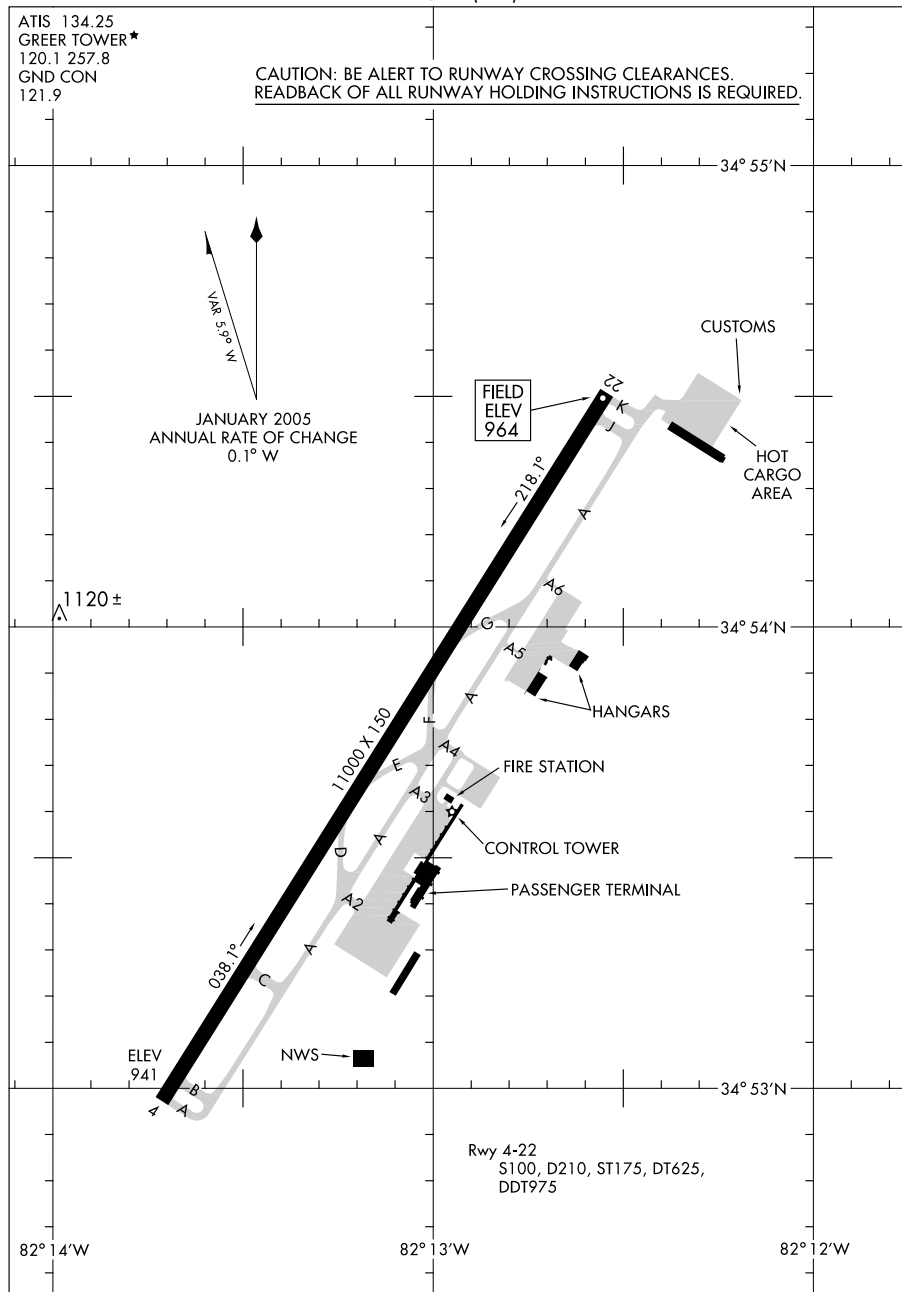
10042

GREENVILLE, SOUTH CAROLINA
GREENVILLE DOWNTOWN (GMU)

07298

AIRPORT DIAGRAM

GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)
AL-5124 (FAA)
GREER, SOUTH CAROLINA



AIRPORT DIAGRAM

GREER, SOUTH CAROLINA
GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)

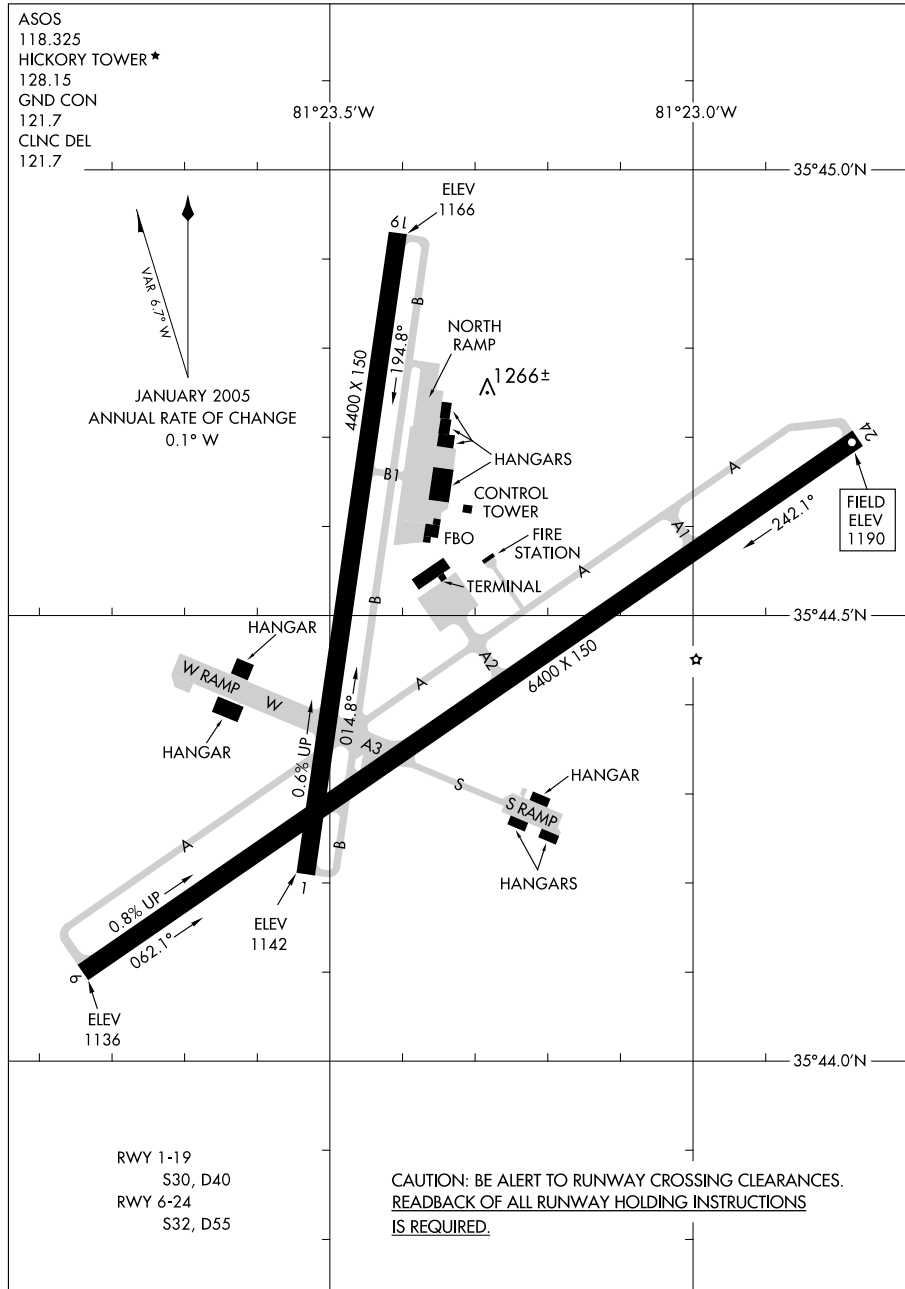
07298

09239

AIRPORT DIAGRAM

AL-706 (FAA)

HICKORY RGNL (HKY)
HICKORY, NORTH CAROLINA



AIRPORT DIAGRAM

09239

HICKORY, NORTH CAROLINA
HICKORY RGNL (HKY)

10154

AIRPORT DIAGRAM

AL-5606 (FAA)

HOLLYWOOD /NORTH PERRY (HWO)

HOLLYWOOD, FLORIDA

ATIS

135.475

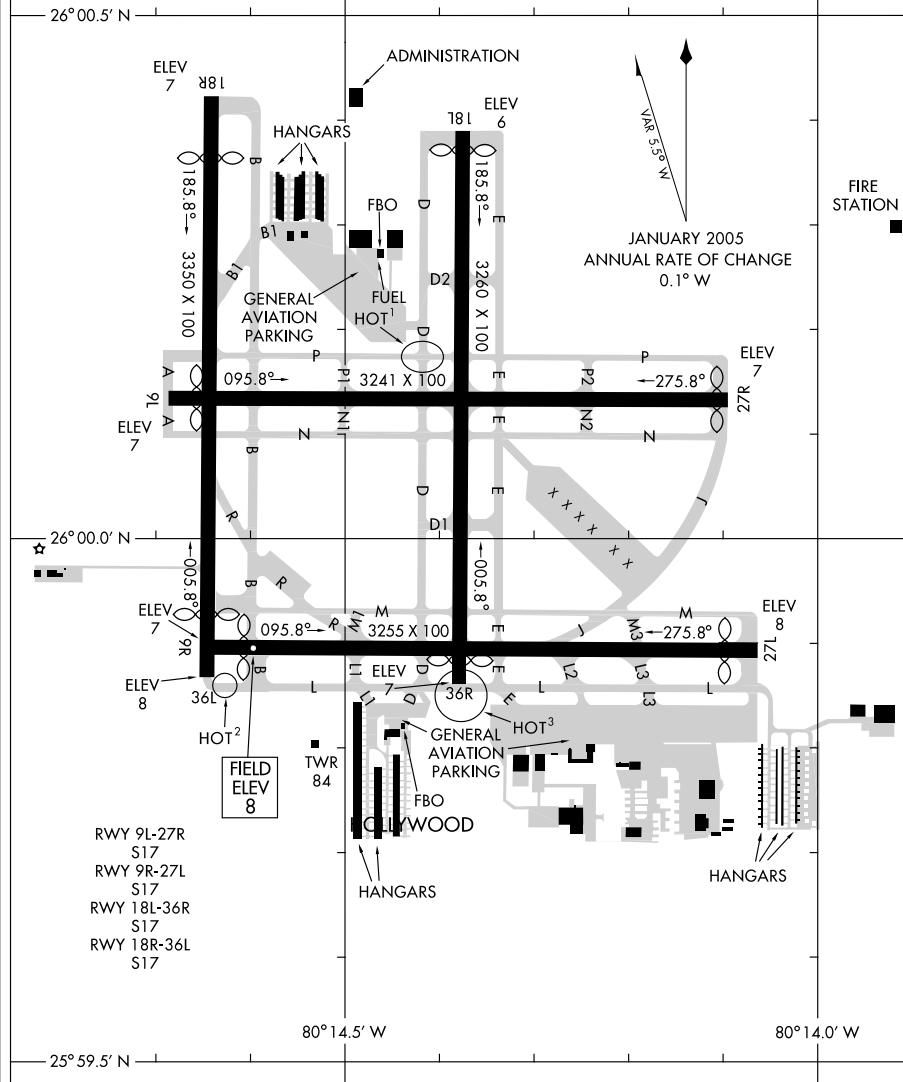
NORTH PERRY TOWER*

132.1 254.3

GND CON

120.45 254.3

CAUTION: BE ALERT TO RUNWAY
CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING
INSTRUCTIONS IS REQUIRED.



AIRPORT DIAGRAM

10154

HOLLYWOOD, FLORIDA
HOLLYWOOD /NORTH PERRY (HWO)

08241

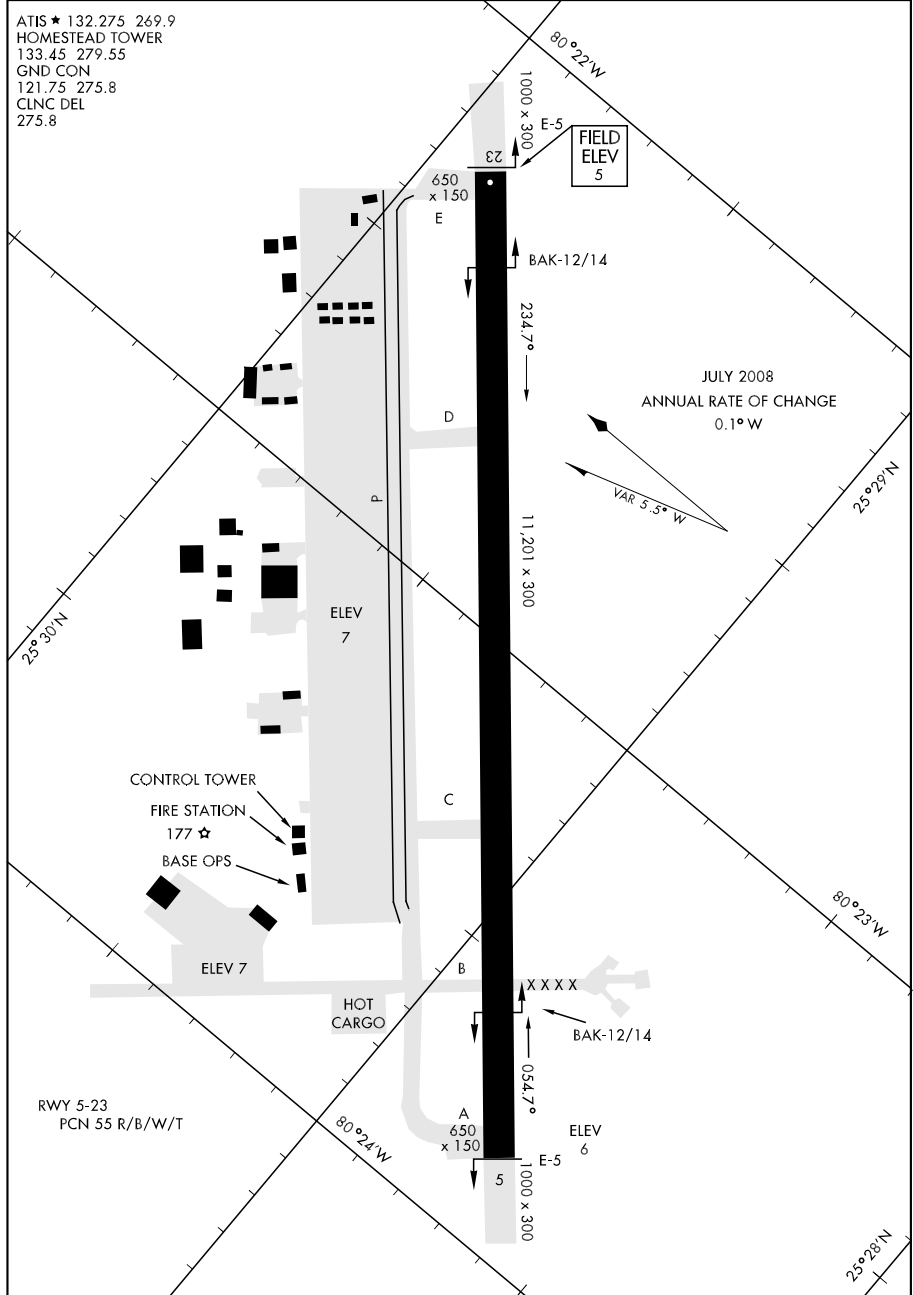
AIRPORT DIAGRAM

AFD-494 [USAF]

HOMESTEAD ARB (KHST)

HOMESTEAD, FLORIDA

ATIS ★ 132.275 269.9
HOMESTEAD TOWER
133.45 279.55
GND CON
121.75 275.8
CLNC DEL
275.8



AIRPORT DIAGRAM

HOMESTEAD, FLORIDA

HOMESTEAD ARB (KHST)

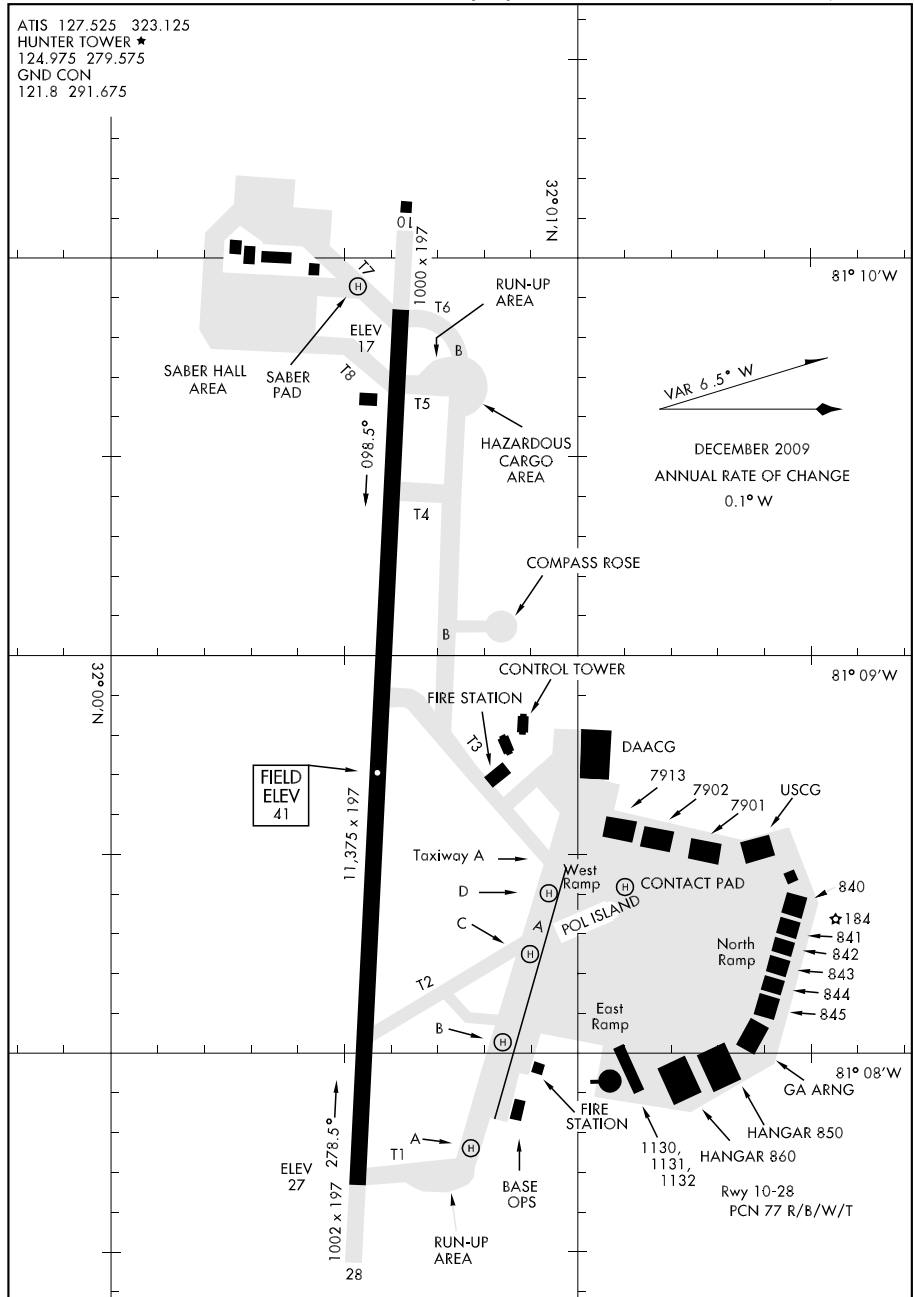
09351

AIRPORT DIAGRAM

AFD-381 [USA]

HUNTER AAF (KSVN)

SAVANNAH, GEORGIA

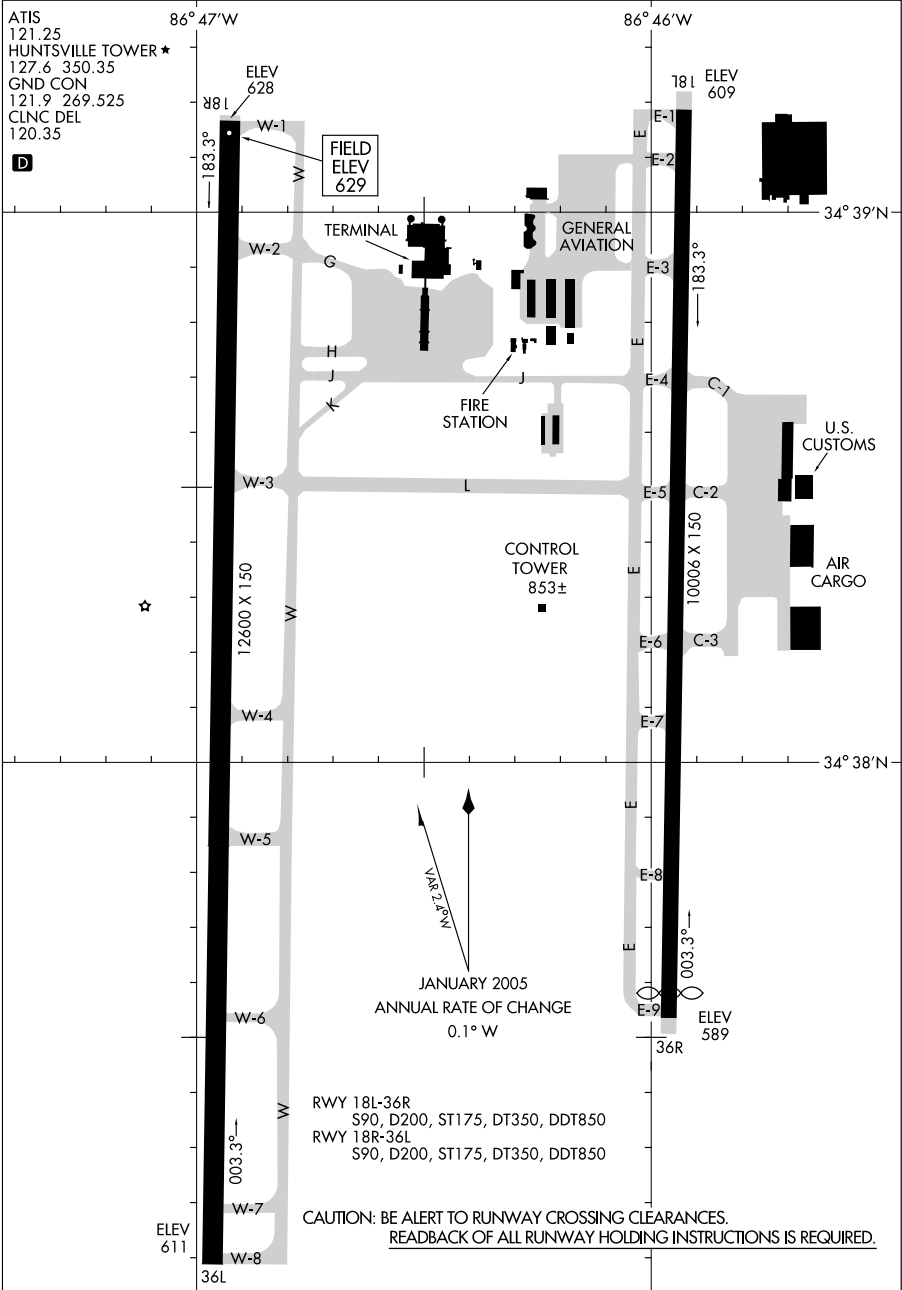


AIRPORT DIAGRAM

SAVANNAH, GEORGIA
HUNTER AAF (KSVN)

09351
AIRPORT DIAGRAM

HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)
AL-5488 (FAA)
HUNTSVILLE, ALABAMA



AIRPORT DIAGRAM
09351

HUNTSVILLE, ALABAMA
HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)

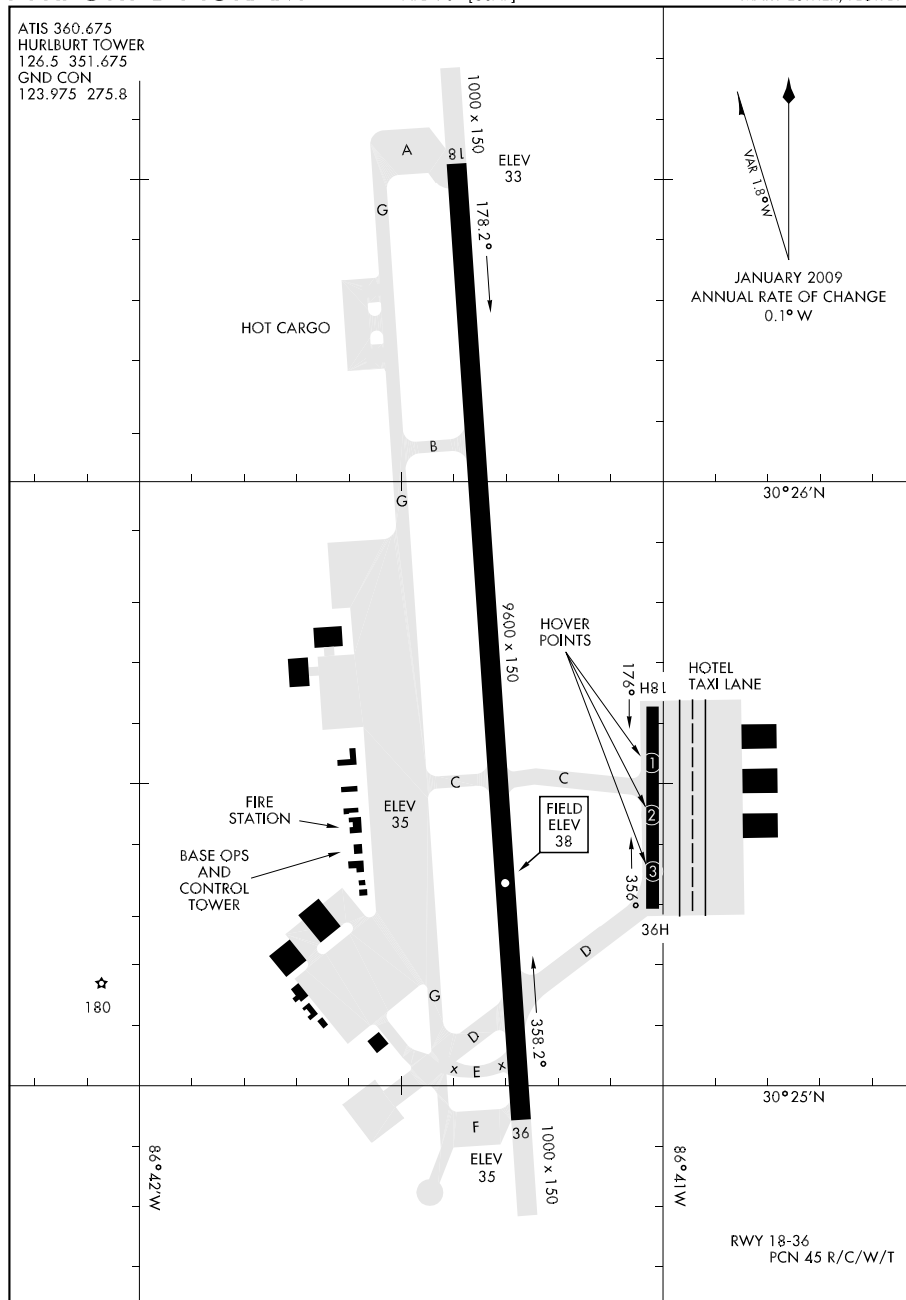
09015

AIRPORT DIAGRAM

AFD-734 [USAF]

HURLBURT FLD (KHRT)

MARY ESTHER, FLORIDA



AIRPORT DIAGRAM

 MARY ESTHER, FLORIDA
 HURLBURT FLD (KHRT)

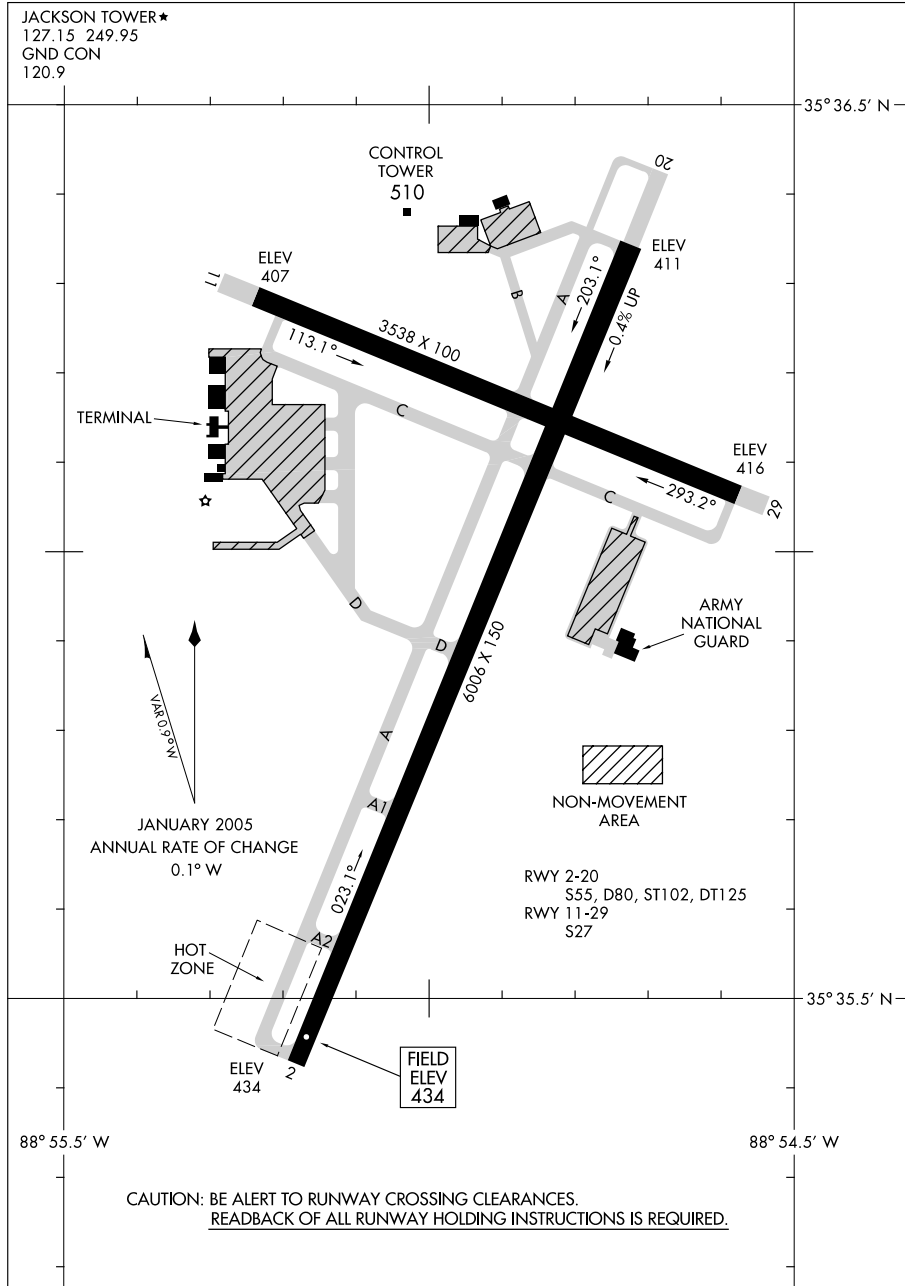
08325

AIRPORT DIAGRAM

JACKSON/McKELLAR-SIPES RGNL (MKL)

AL-5062 (FAA)

JACKSON, TENNESSEE



AIRPORT DIAGRAM

08325

JACKSON, TENNESSEE
JACKSON/McKELLAR-SIPES RGNL (MKL)

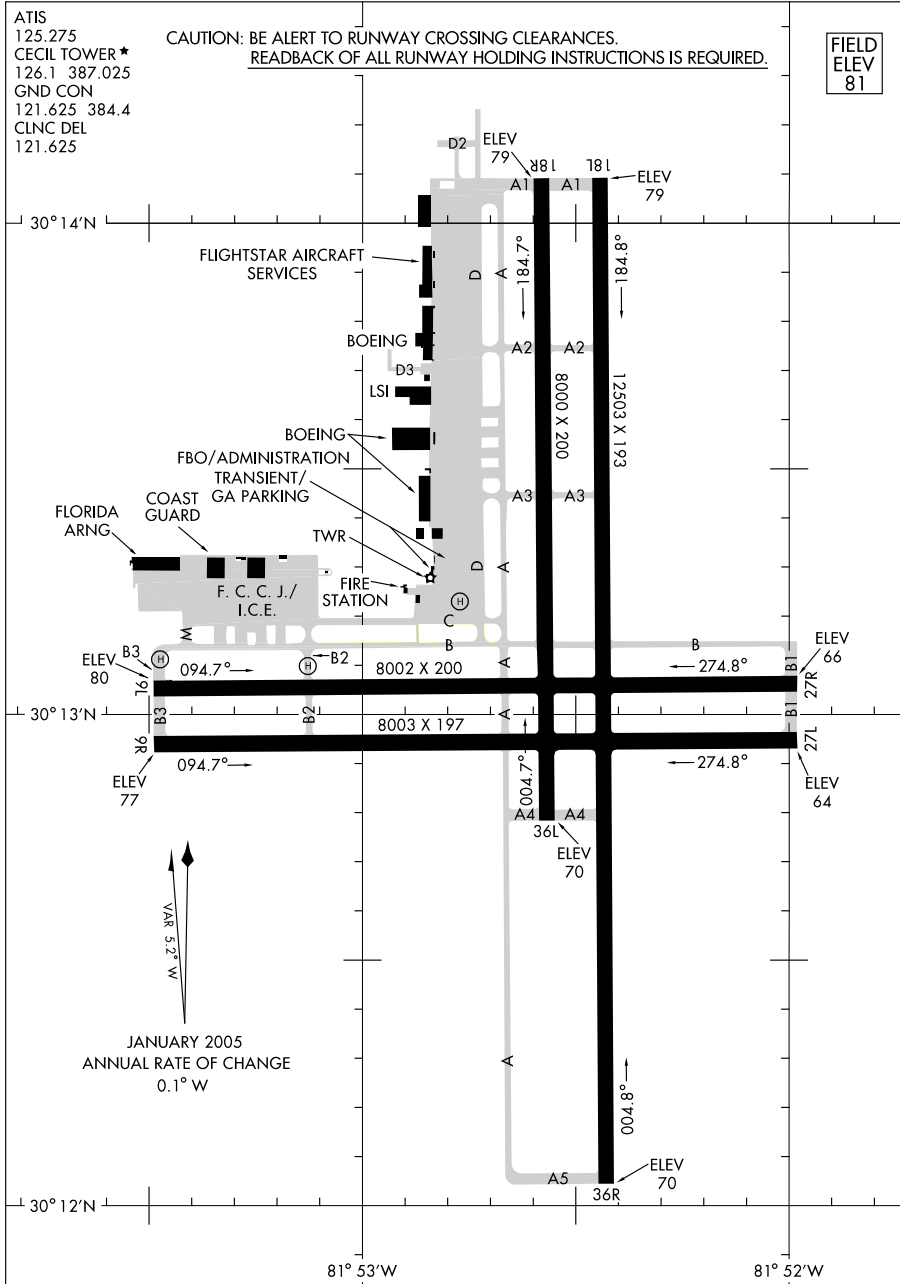
10154

AIRPORT DIAGRAM

AL-998 (FAA)

JACKSONVILLE/ CECIL FIELD (VQQ)

JACKSONVILLE, FLORIDA



AIRPORT DIAGRAM

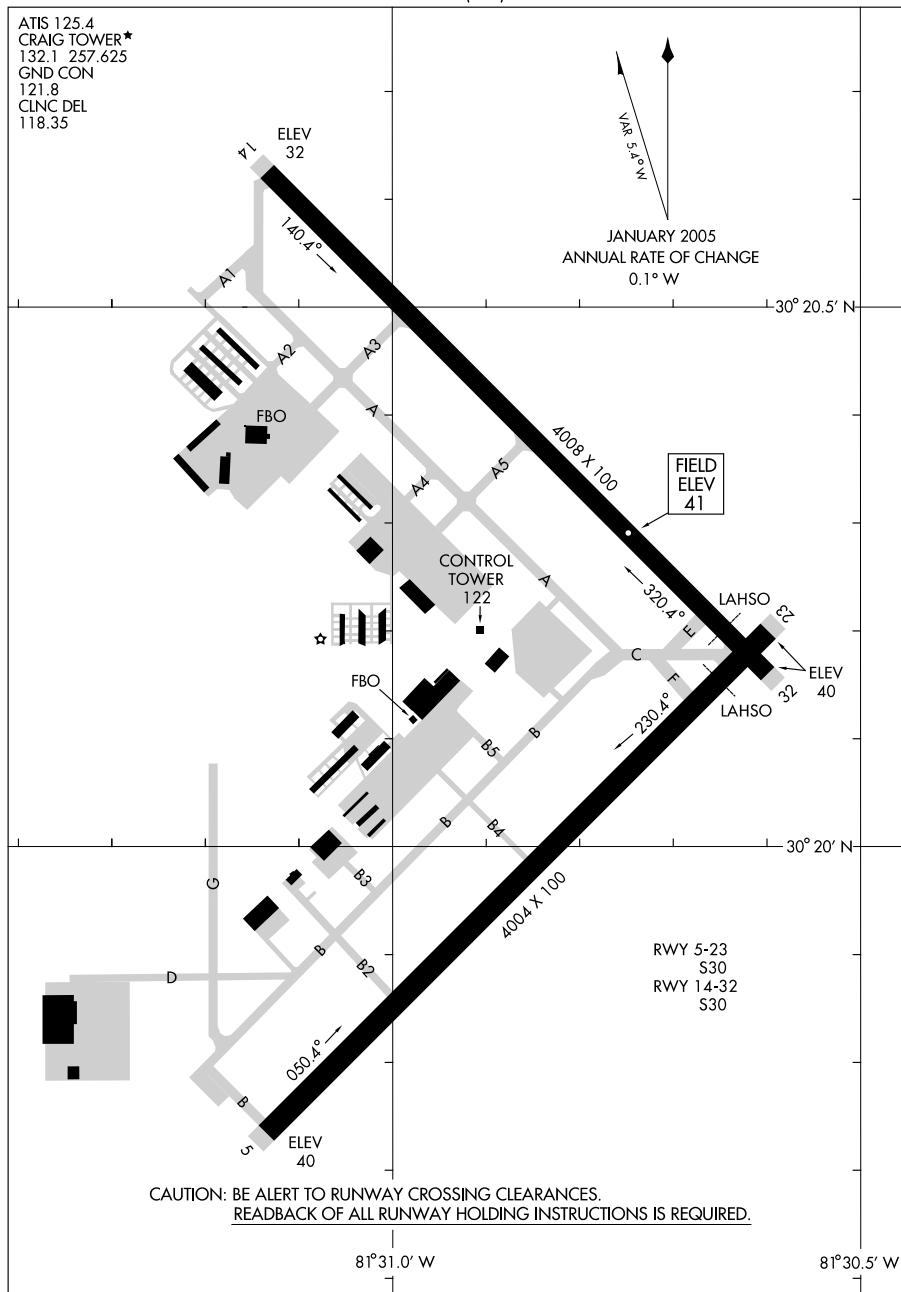
10154

JACKSONVILLE, FLORIDA
JACKSONVILLE/ CECIL FIELD (VQQ)

07354

AIRPORT DIAGRAM

AL-208 (FAA)

JACKSONVILLE/CRAIG MUNI (CRG)
JACKSONVILLE, FLORIDA

AIRPORT DIAGRAM

07354

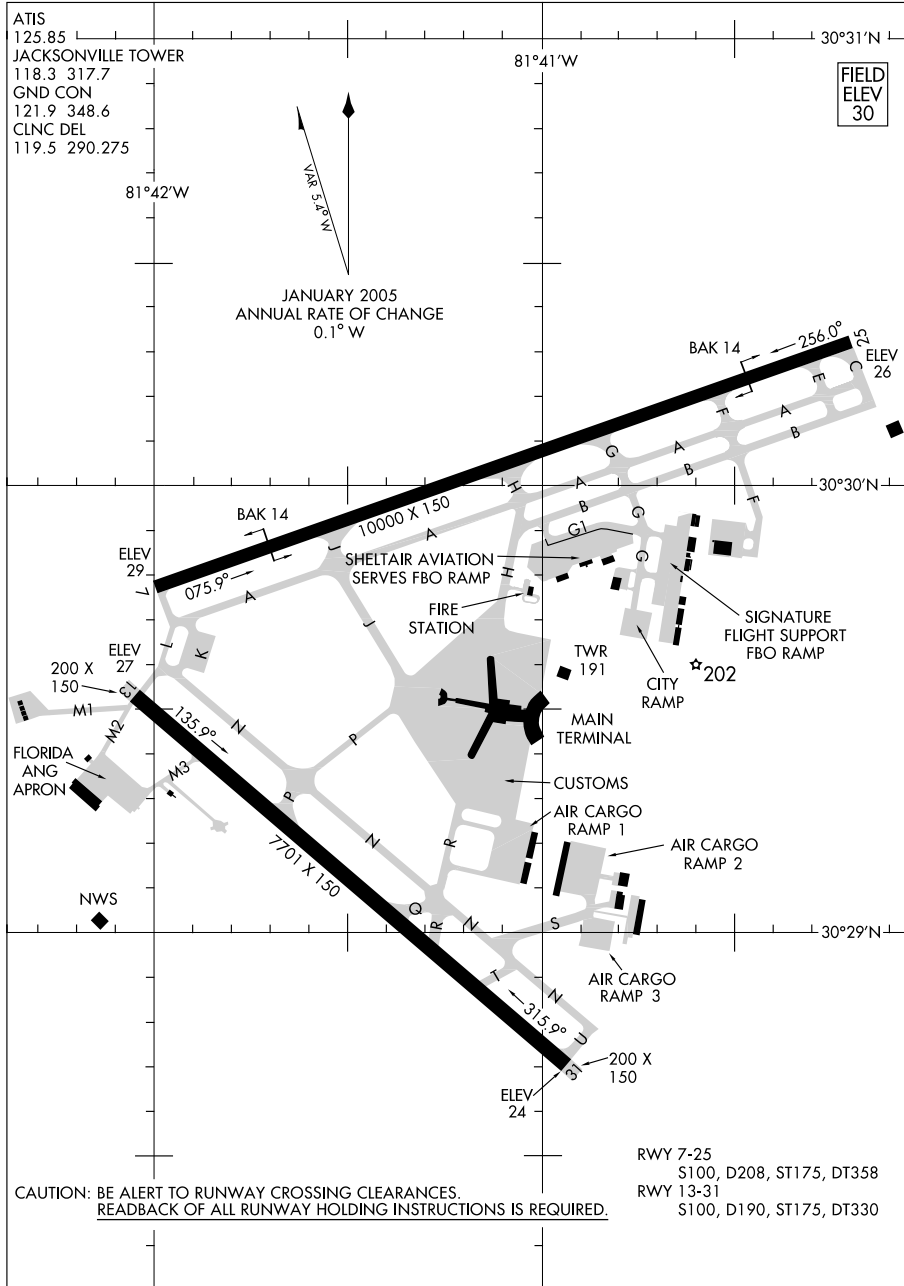
JACKSONVILLE, FLORIDA
JACKSONVILLE/ CRAIG MUNI (CRG)

10154

AIRPORT DIAGRAM

AL-5570 (FAA)

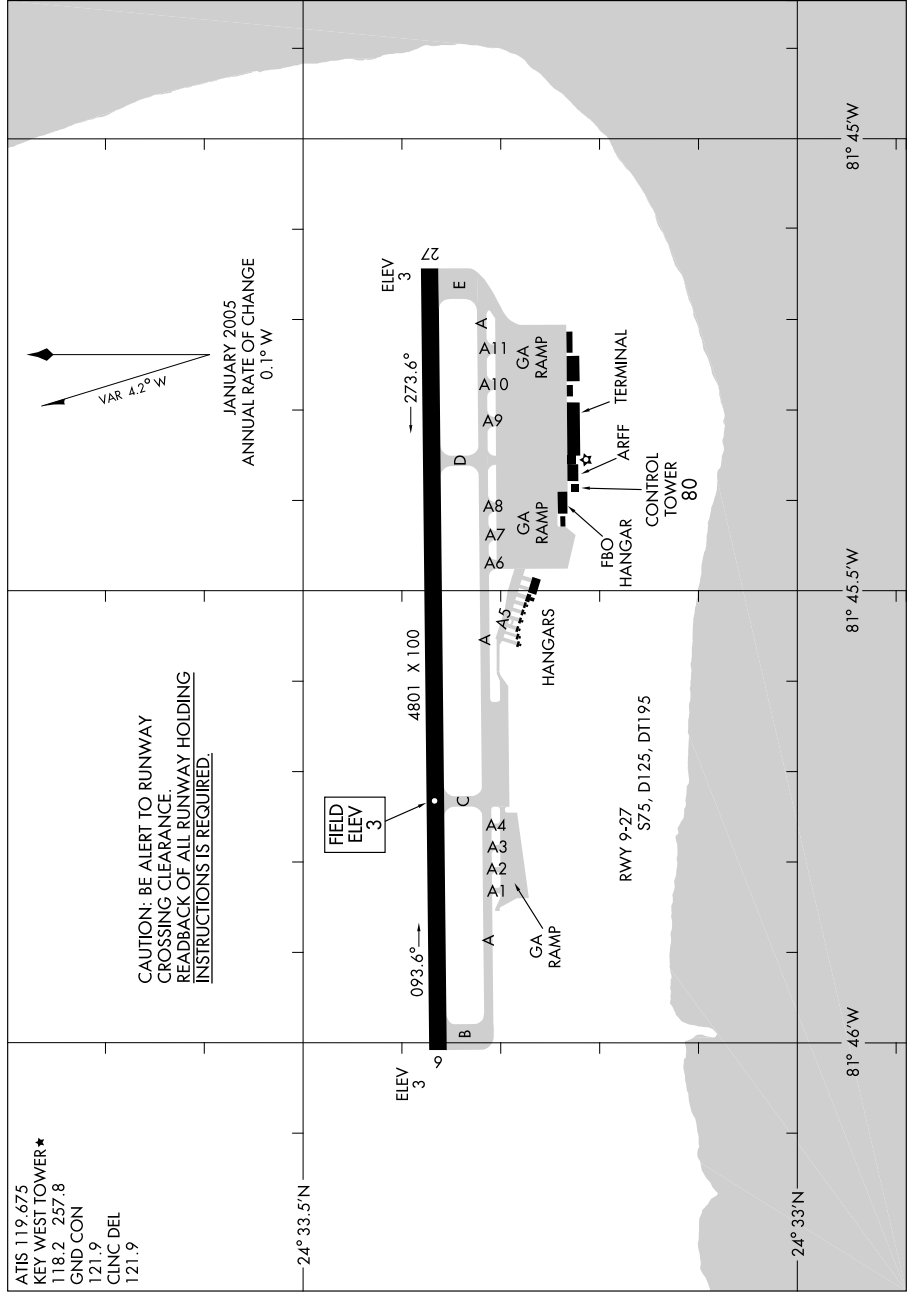
JACKSONVILLE INTL (JAX)
JACKSONVILLE, FLORIDA



AIRPORT DIAGRAM

10154

JACKSONVILLE, FLORIDA
JACKSONVILLE INTL (JAX)



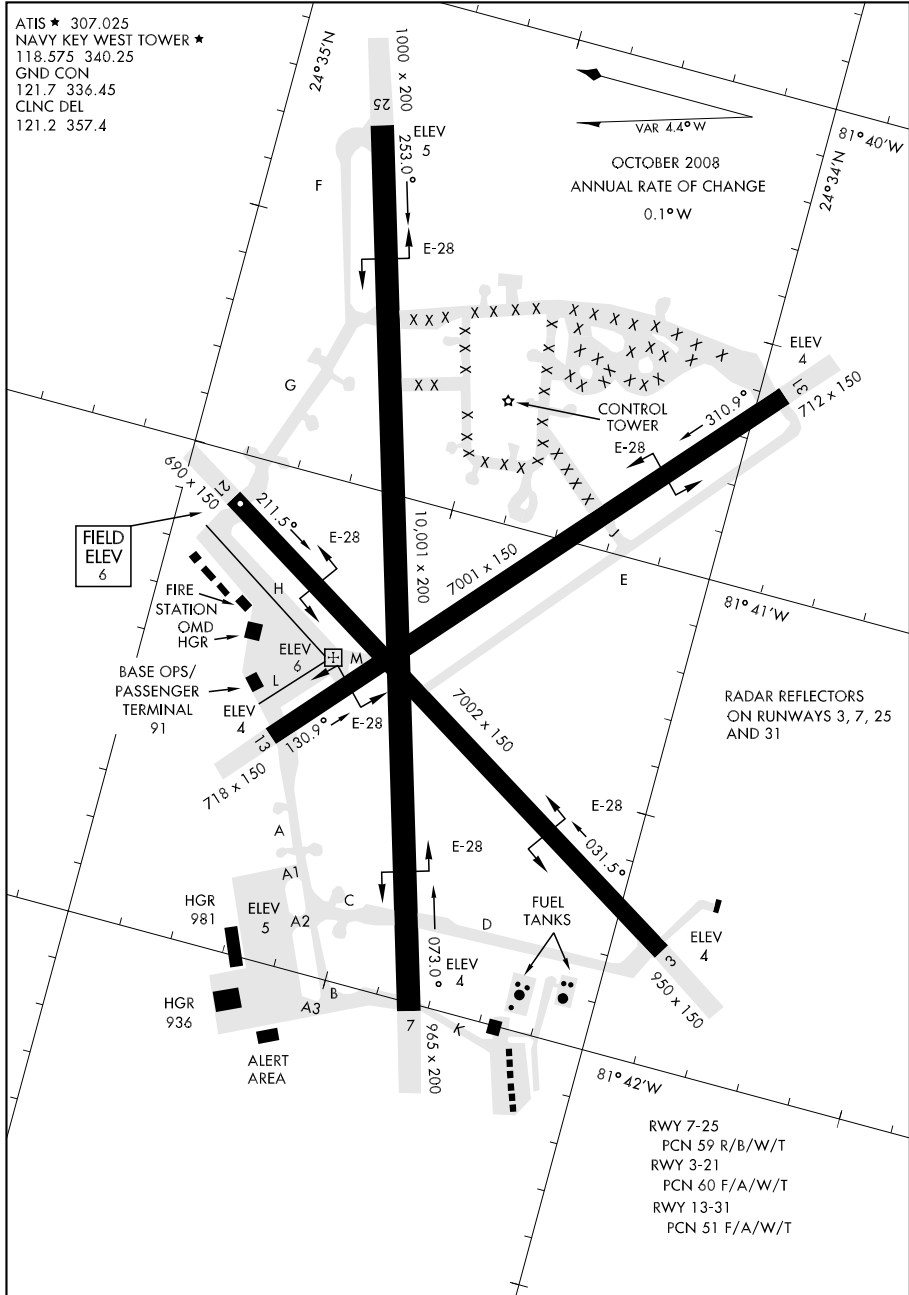
09015

KEY WEST NAS (BOCA CHICA FLD) (KNQX)

AIRPORT DIAGRAM

AFD-21.4 [USN]

KEY WEST, FLORIDA



AIRPORT DIAGRAM

KEY WEST, FLORIDA

KEY WEST NAS (BOCA CHICA FLD) (KNQX)

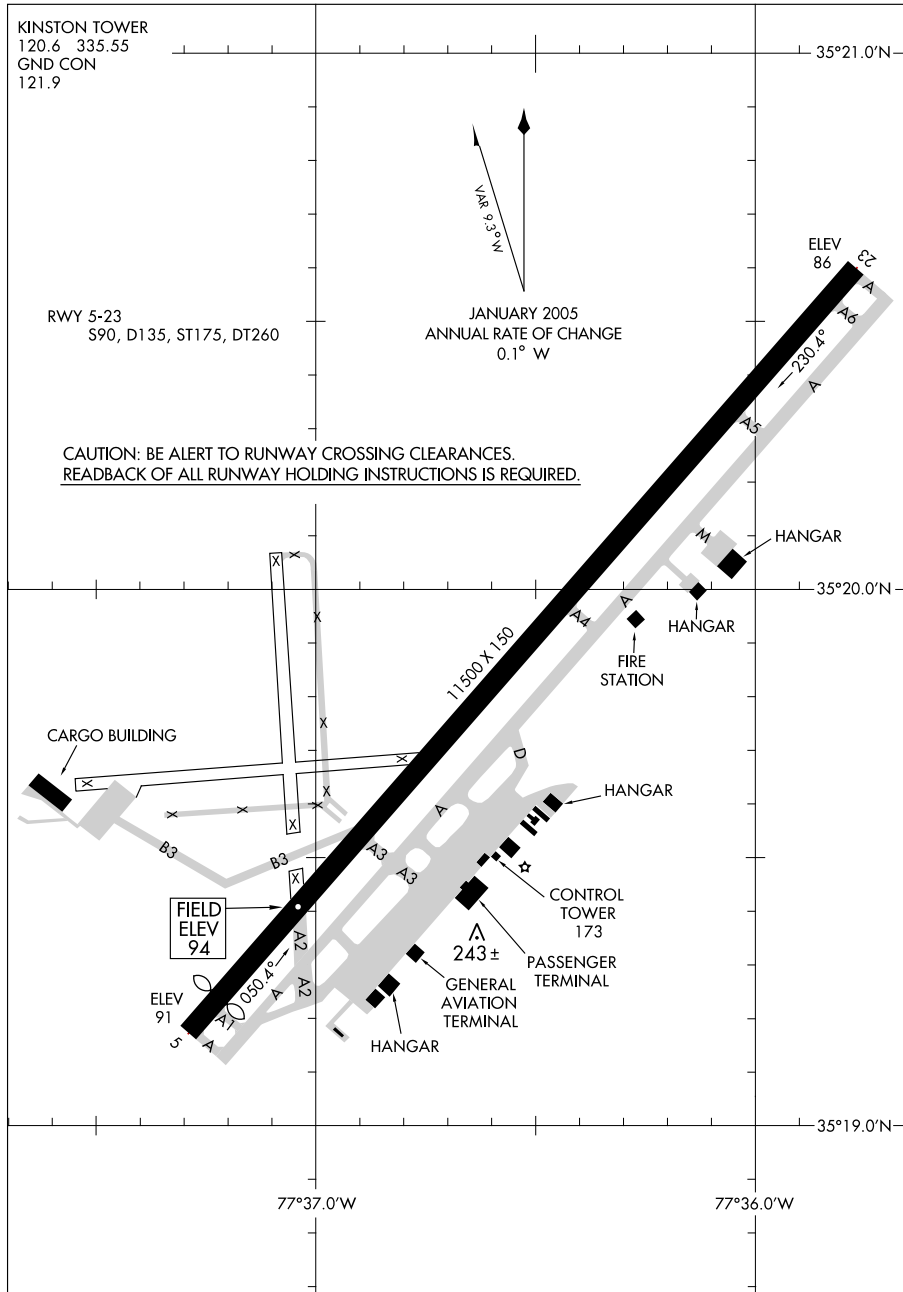
07298

AIRPORT DIAGRAM

KINSTON RGNL JETPORT AT STALLINGS FIELD (ISO)

AL-5038 (FAA)

KINSTON, NORTH CAROLINA

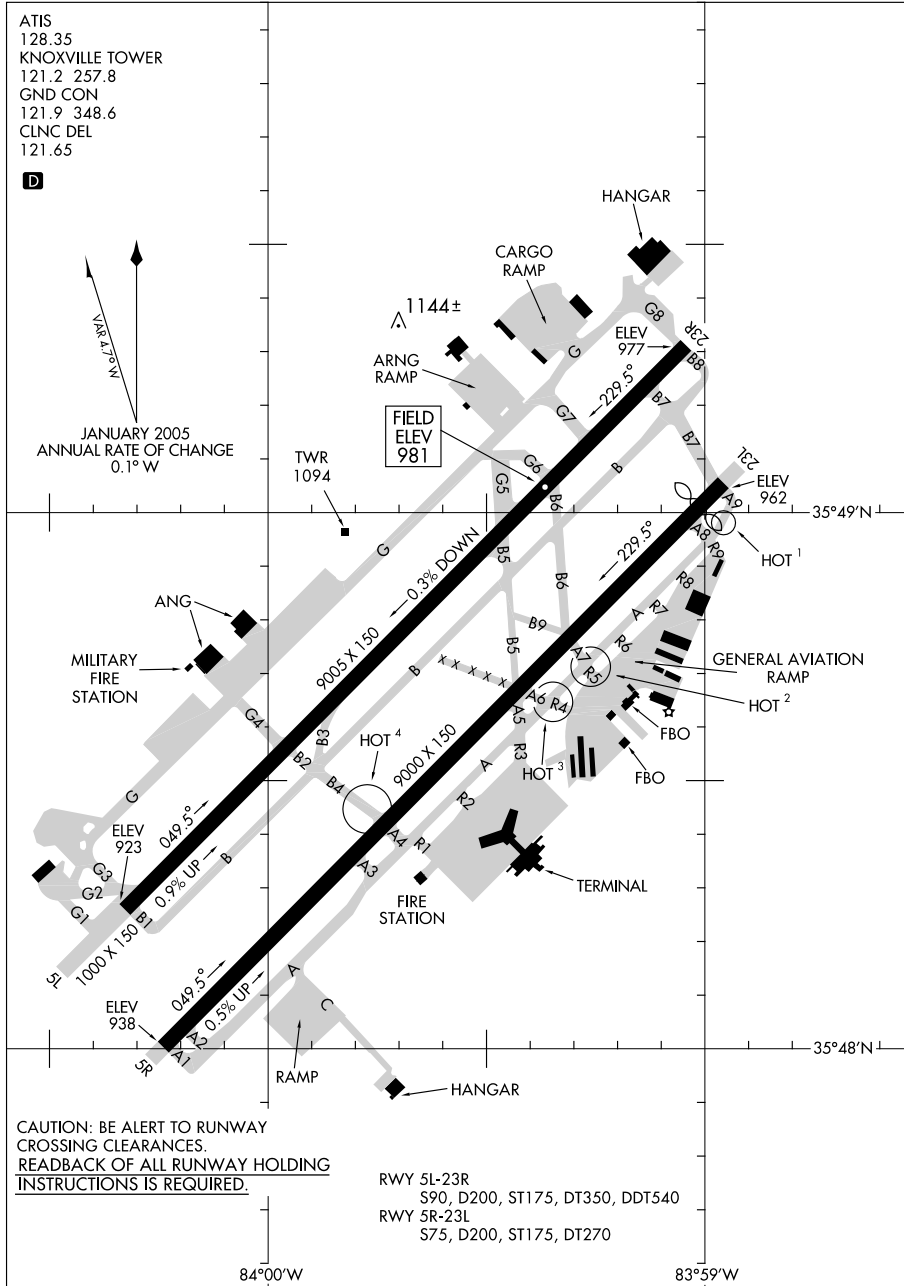


10098

AIRPORT DIAGRAM

AL-218 (FAA)

KNOXVILLE / MCGHEE-TYSON (TYS)
KNOXVILLE, TENNESSEE



AIRPORT DIAGRAM

10098

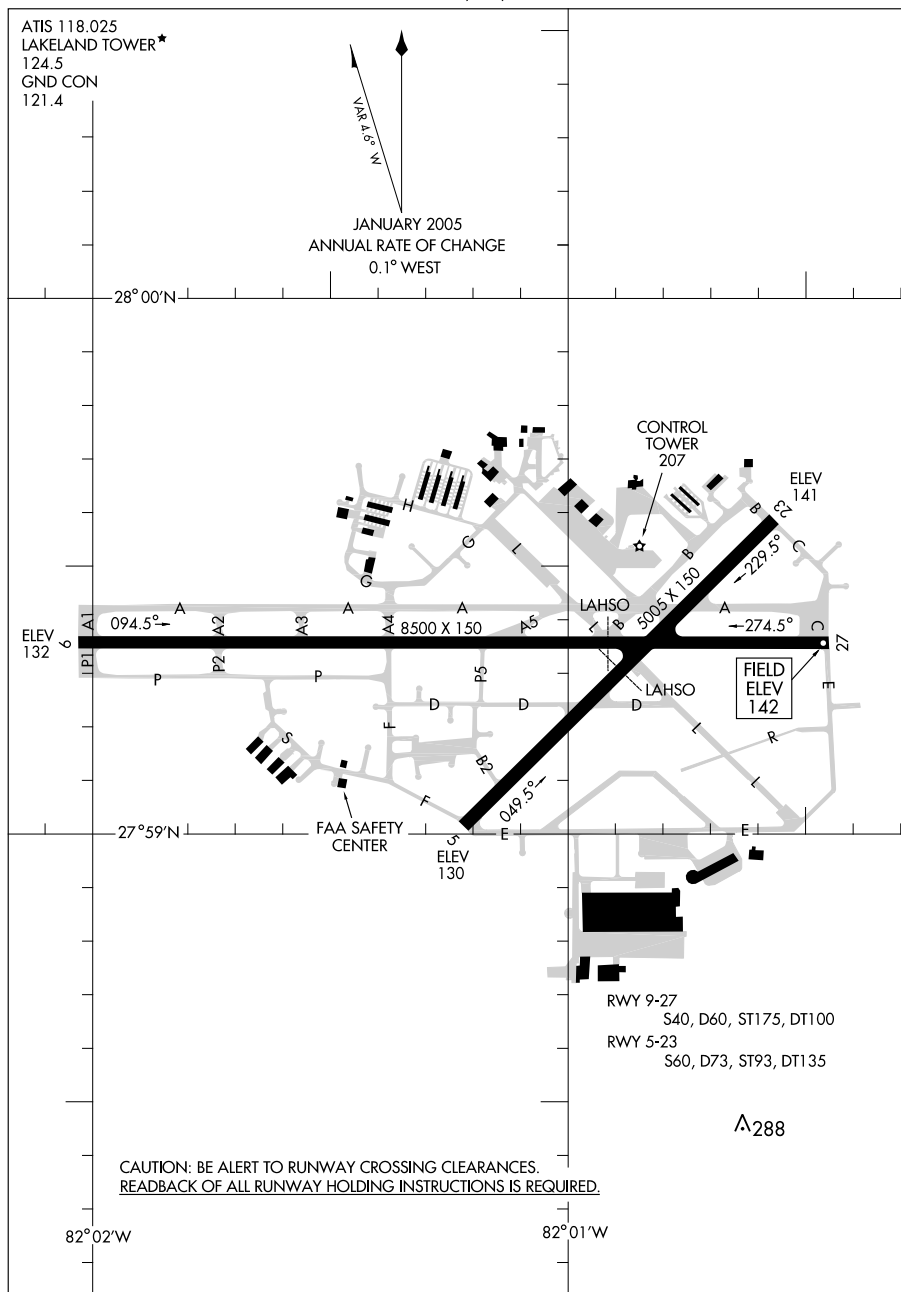
KNOXVILLE, TENNESSEE
KNOXVILLE / MCGHEE-TYSON (TYS)

SE, 03 JUN 2010 to 29 JUL 2010

07354

AIRPORT DIAGRAM

AL-939 (FAA)

LAKELAND LINDER RGNL (LAL)
LAKELAND, FLORIDA

AIRPORT DIAGRAM

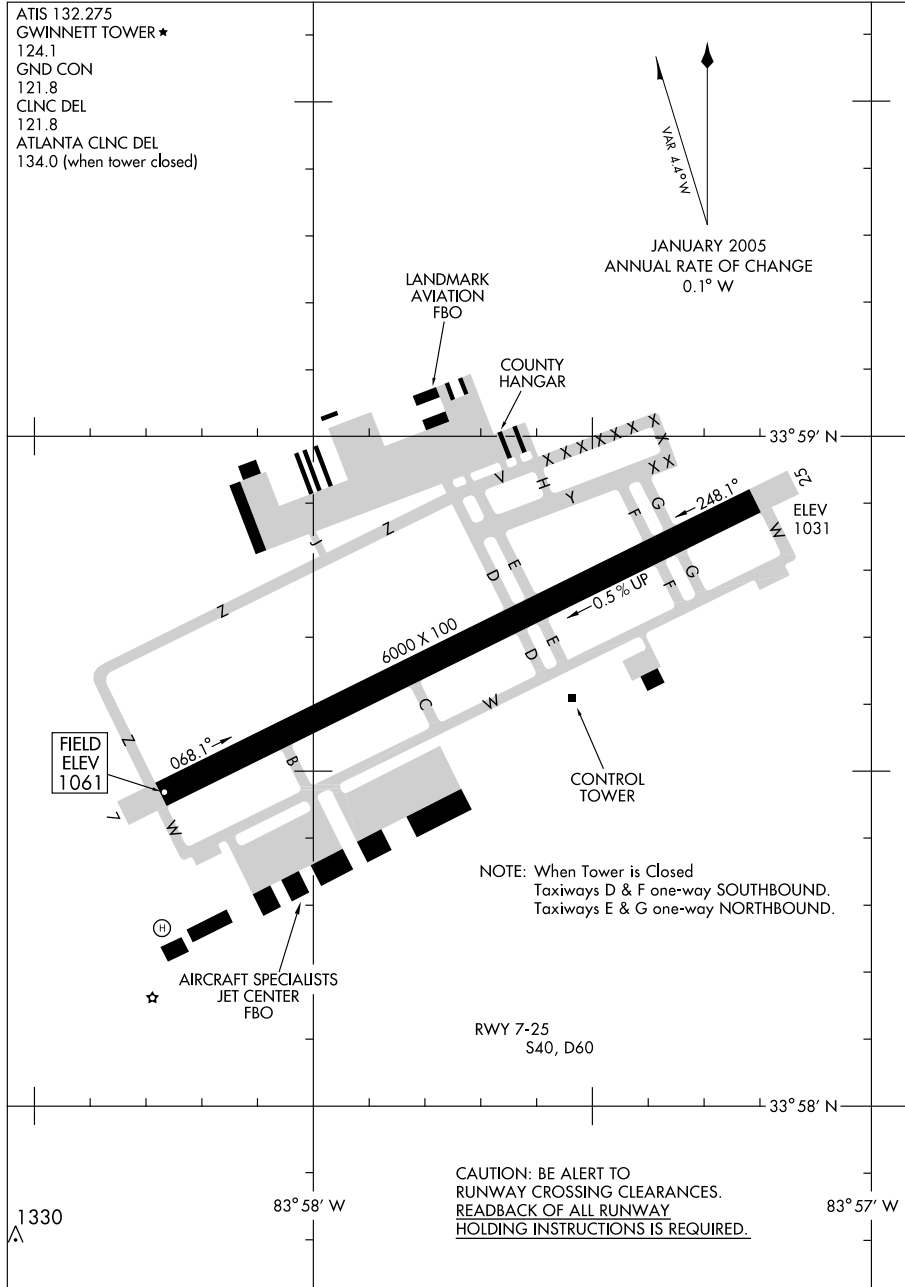
07354

LAKELAND, FLORIDA
LAKELAND LINDER RGNL (LAL)

07130

AIRPORT DIAGRAM

LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)
AL-5385 (FAA) LAWRENCEVILLE, GEORGIA



AIRPORT DIAGRAM

07130

LAWRENCEVILLE, GEORGIA
LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)

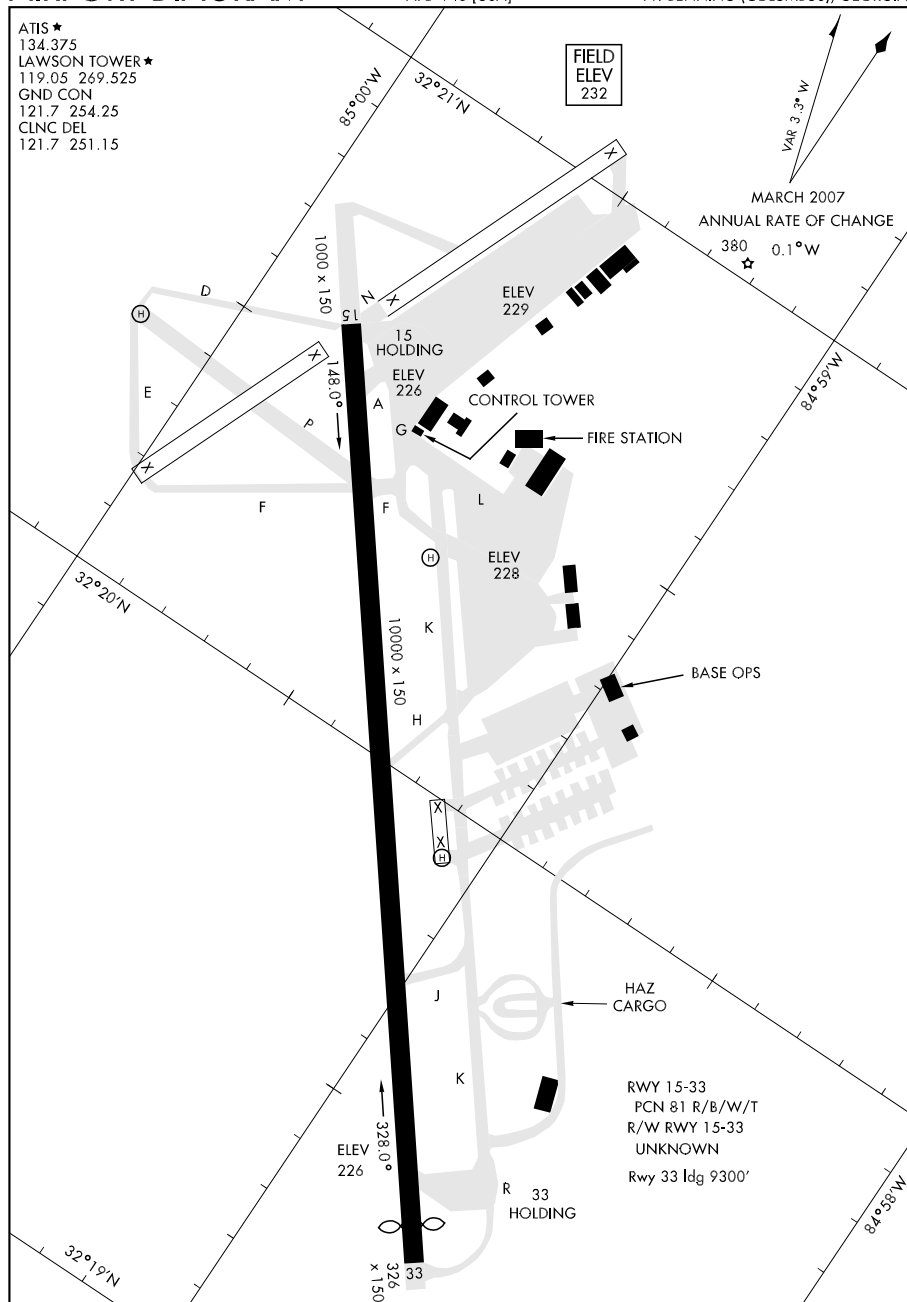
07074

AIRPORT DIAGRAM

AFD-146 [USA]

LAWSON AAF (KLSF)

FT. BENNING (COLUMBUS), GEORGIA



AIRPORT DIAGRAM

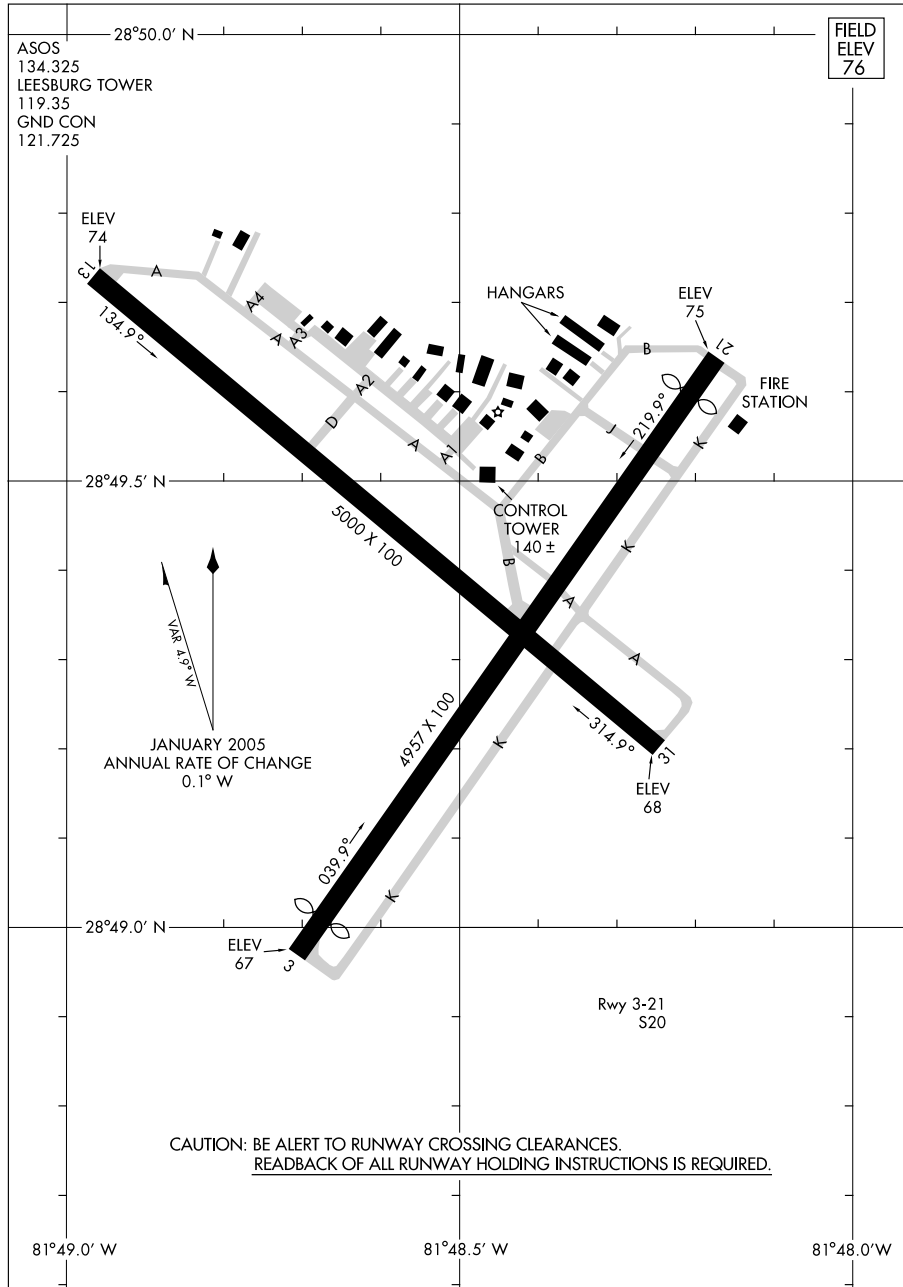
FT. BENNING (COLUMBUS), GEORGIA

LAWSON AAF (KLSF)

09295

AIRPORT DIAGRAM

AL-6676 (FAA)

LEESBURG INTL (LEE)
LEESBURG, FLORIDA

AIRPORT DIAGRAM

09295

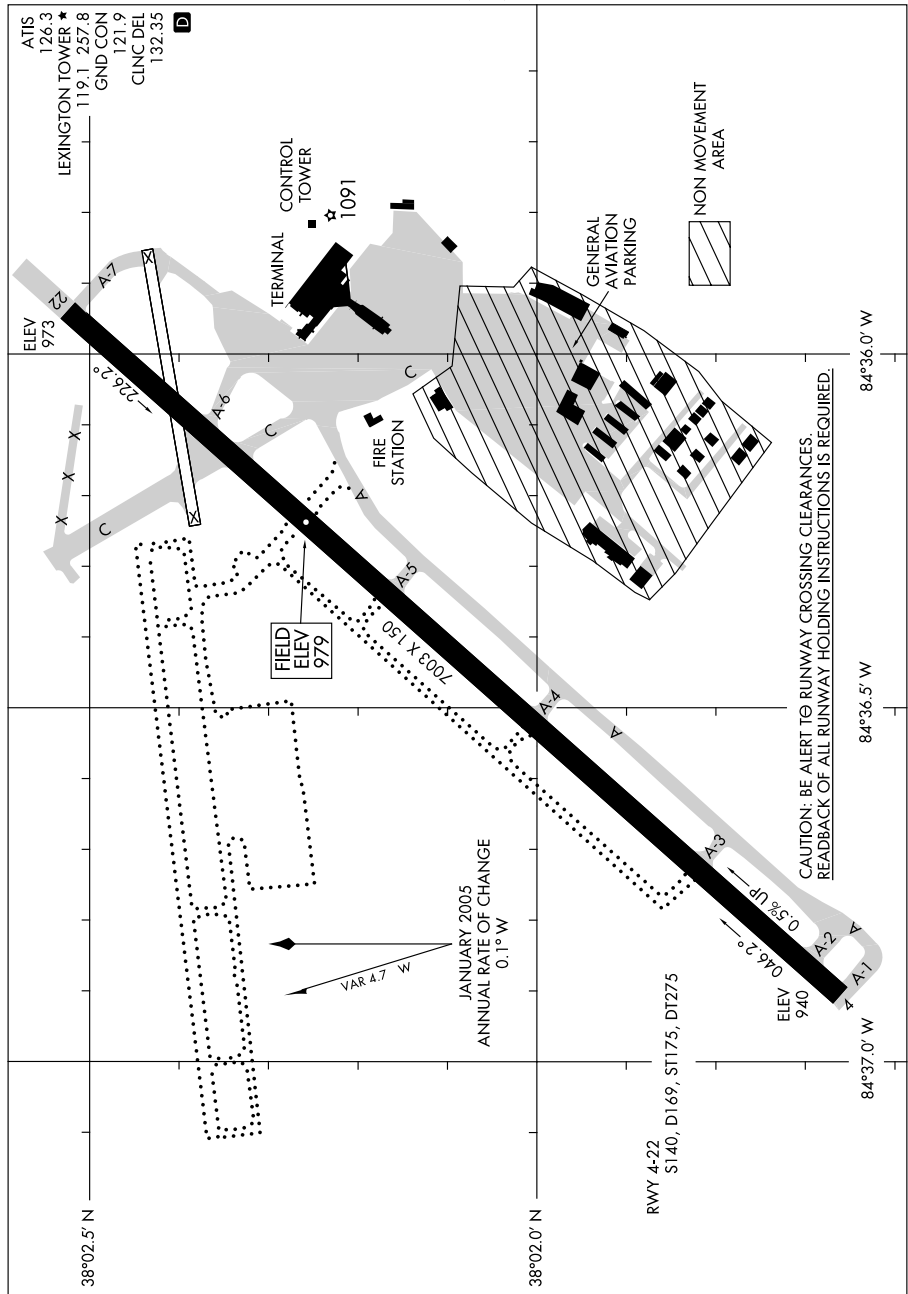
LEESBURG, FLORIDA
LEESBURG INTL (LEE)

09351

AIRPORT DIAGRAM

AL-697 (FAA)

LEXINGTON / BLUE GRASS (LEX)
LEXINGTON, KENTUCKY



AIRPORT DIAGRAM

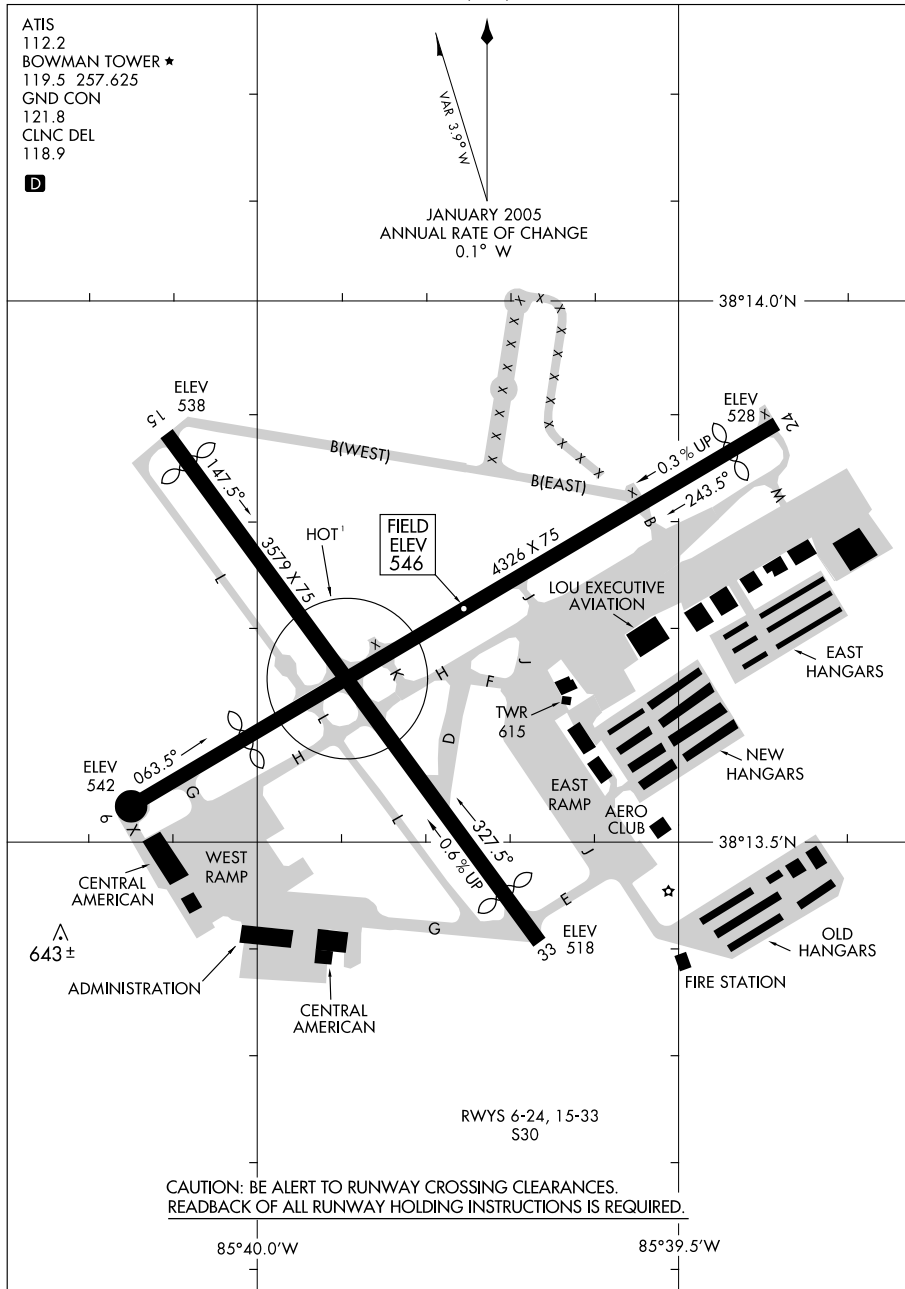
09351

LEXINGTON, KENTUCKY
LEXINGTON / BLUE GRASS (LEX)

10154

AIRPORT DIAGRAM

LOUISVILLE/BOWMAN FIELD (LOU)
LOUISVILLE, KENTUCKY



AIRPORT DIAGRAM

LOUISVILLE, KENTUCKY
LOUISVILLE/BOWMAN FIELD (LOU)

10154

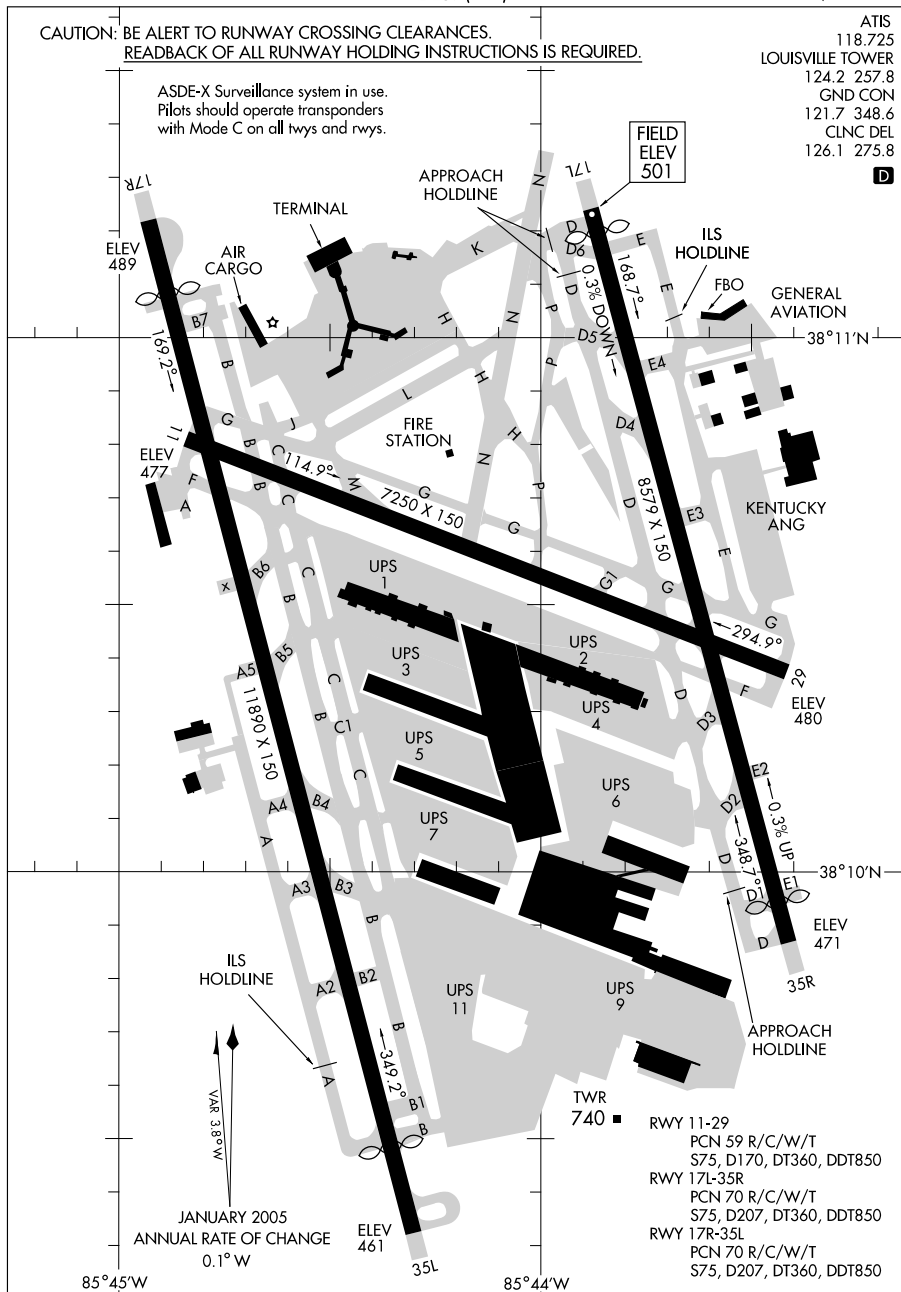
10098

AIRPORT DIAGRAM

LOUISVILLE INTL-STANDIFORD FIELD (SDF)

AL-239 (FAA)

LOUISVILLE, KENTUCKY



AIRPORT DIAGRAM

10098

LOUISVILLE, KENTUCKY
LOUISVILLE INTL-STANDIFORD FIELD (SDF)

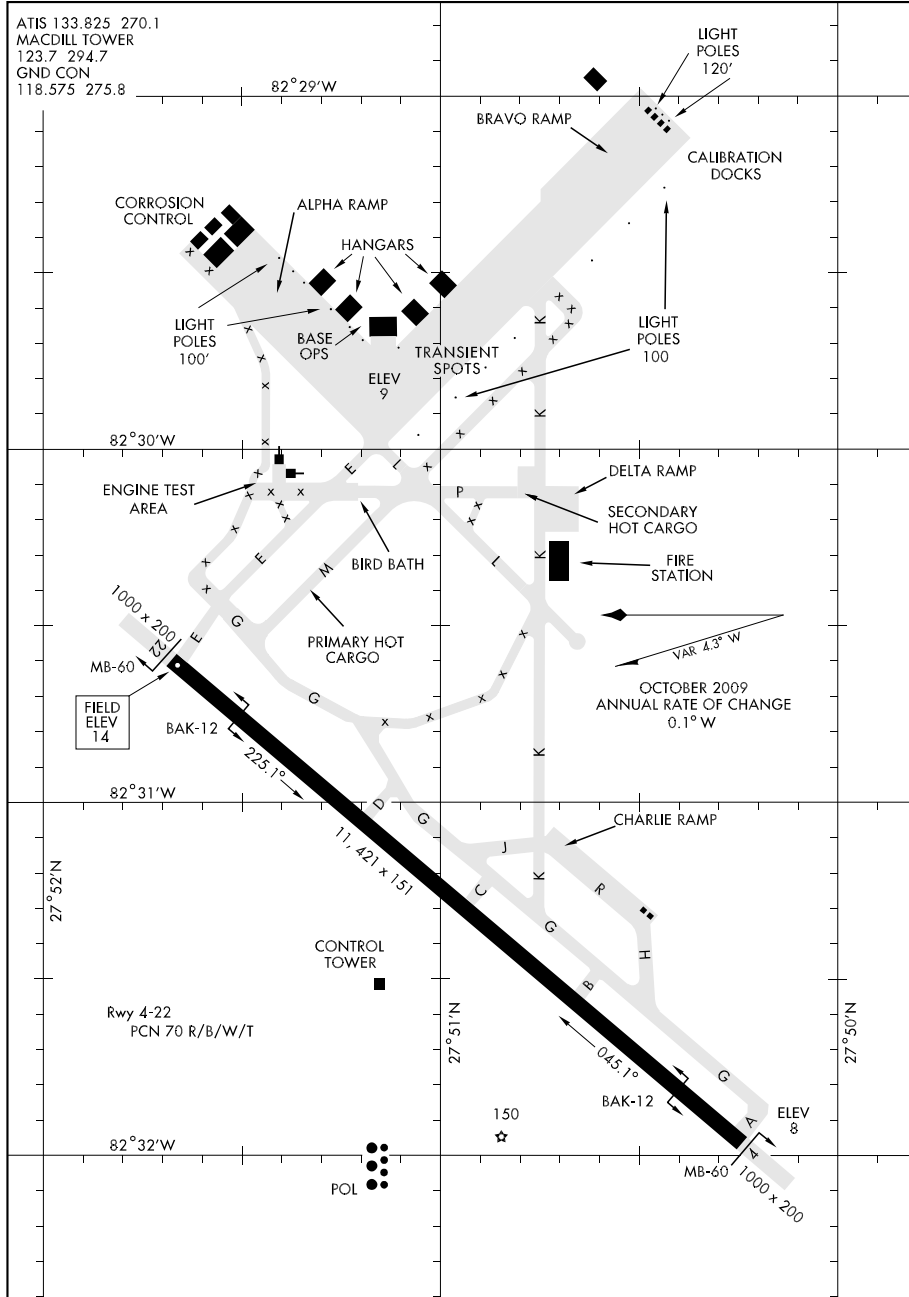
09295

AIRPORT DIAGRAM

AFD-418 [USAF]

MACDILL AFB (KMCF)

TAMPA, FLORIDA



AIRPORT DIAGRAM

TAMPA, FLORIDA
MACDILL AFB (KMCF)

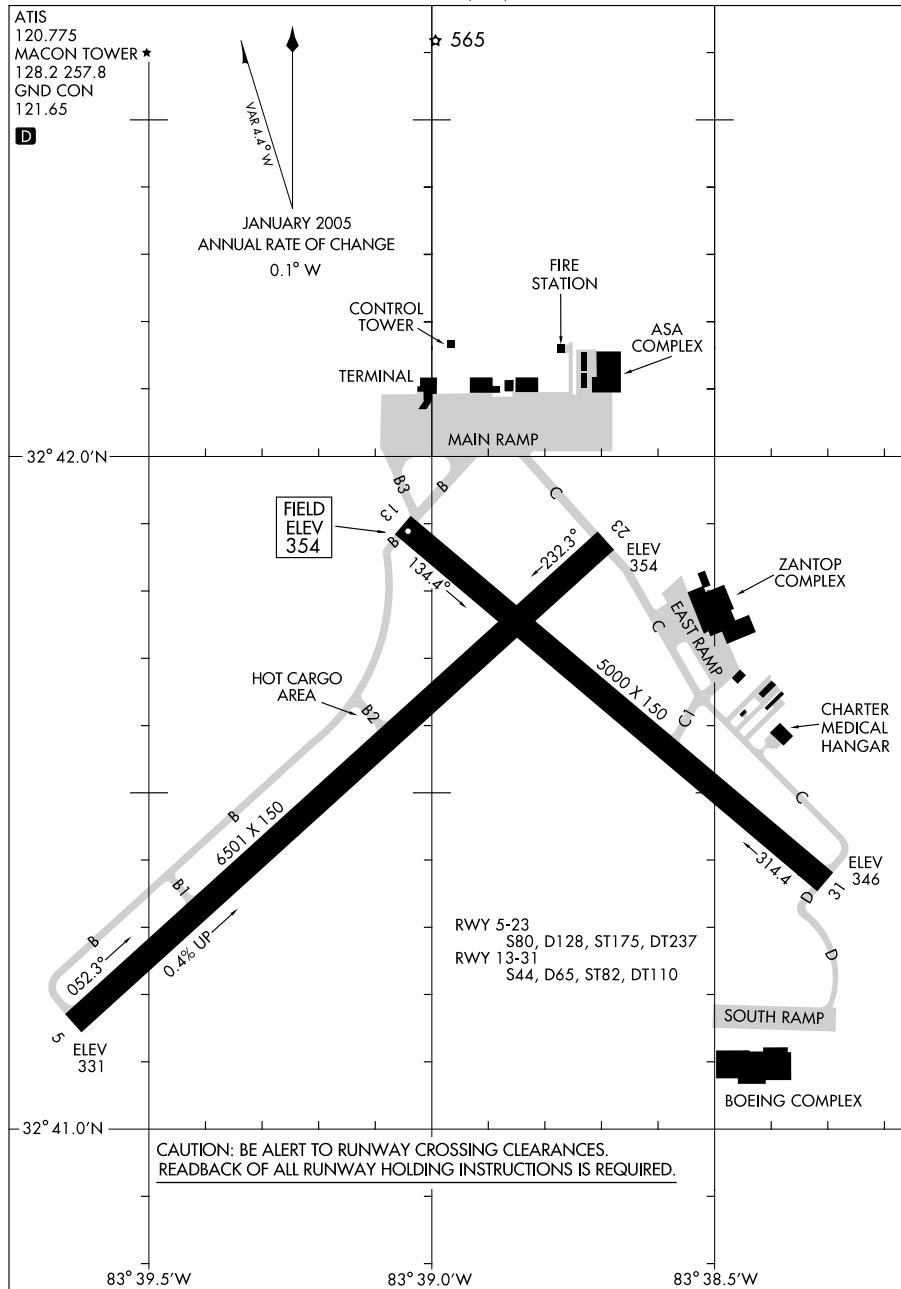
09351

AIRPORT DIAGRAM

MACON/ MIDDLE GEORGIA RGNL (MCN)

AL-243 (FAA)

MACON, GEORGIA



AIRPORT DIAGRAM

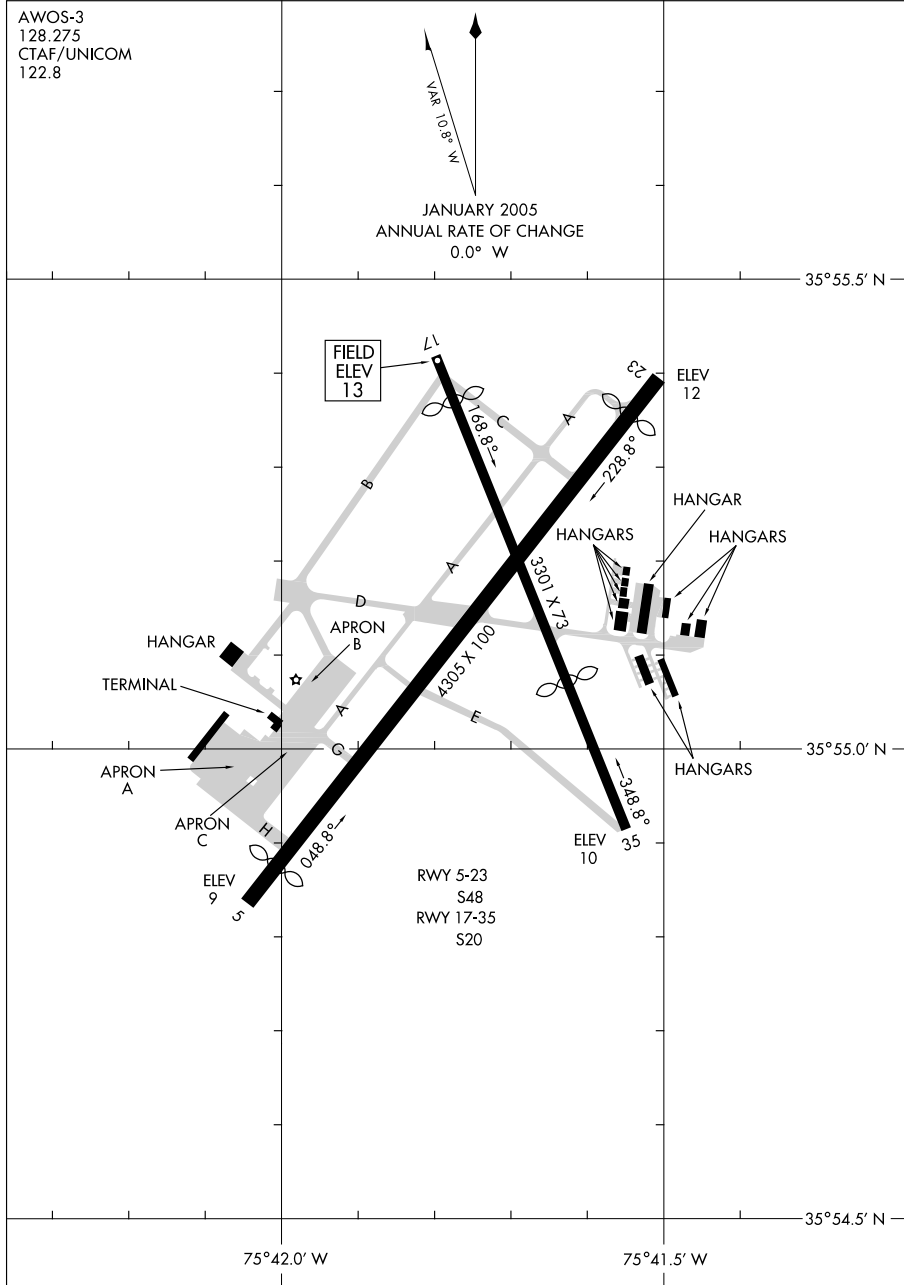
09351

MACON, GEORGIA
MACON/ MIDDLE GEORGIA RGNL (MCN)

09239

AIRPORT DIAGRAM

MANTEO/ DARE COUNTY RGNL (MQI)
MANTEO, NORTH CAROLINA



AIRPORT DIAGRAM

MANTEO, NORTH CAROLINA
MANTEO/ DARE COUNTY RGNL (MQI)

09239

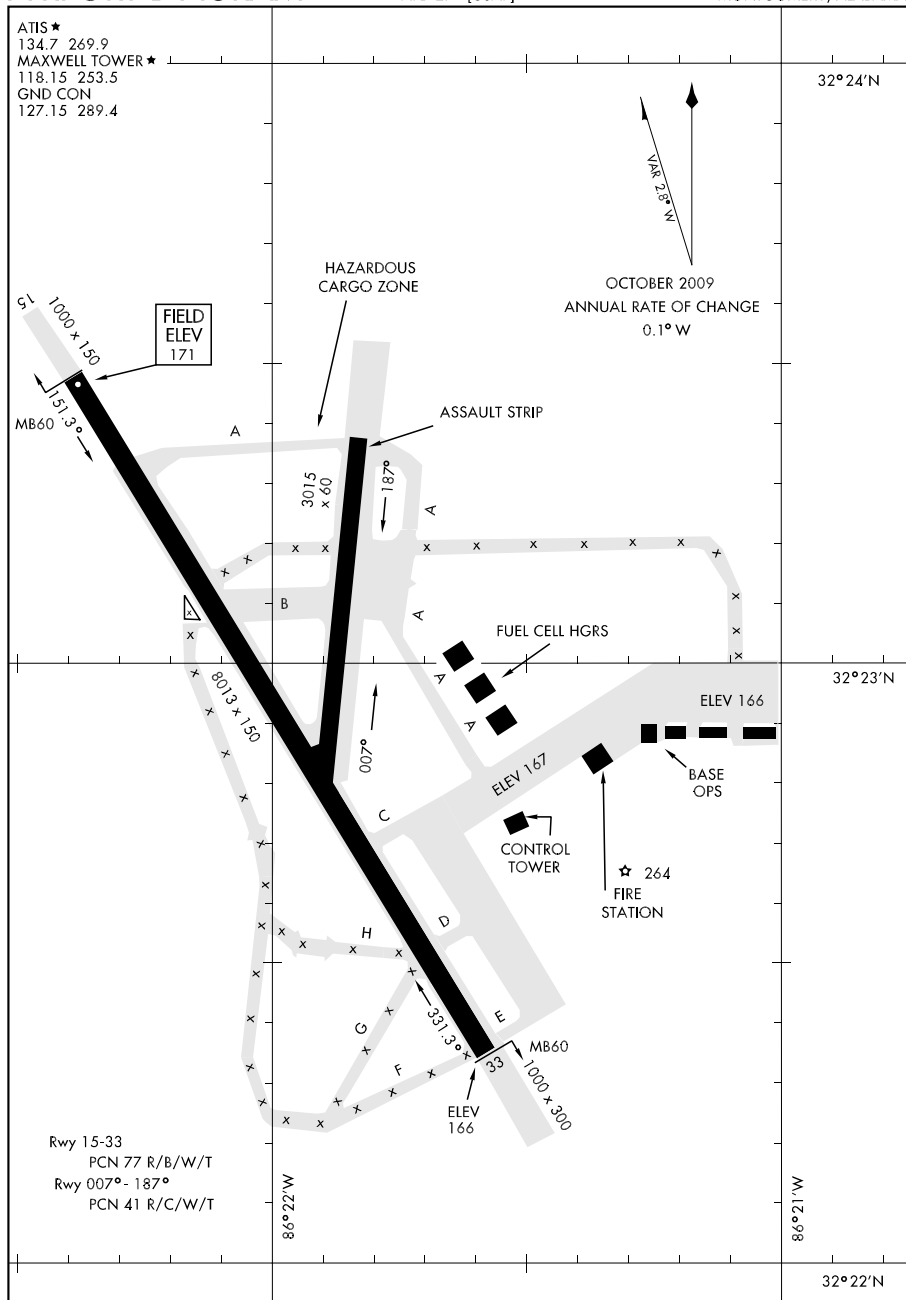
09295

AIRPORT DIAGRAM

AFD-274 [USAF]

MAXWELL AFB (KMXF)

MONTGOMERY, ALABAMA



AIRPORT DIAGRAM

MONTGOMERY, ALABAMA
MAXWELL AFB (KMXF)

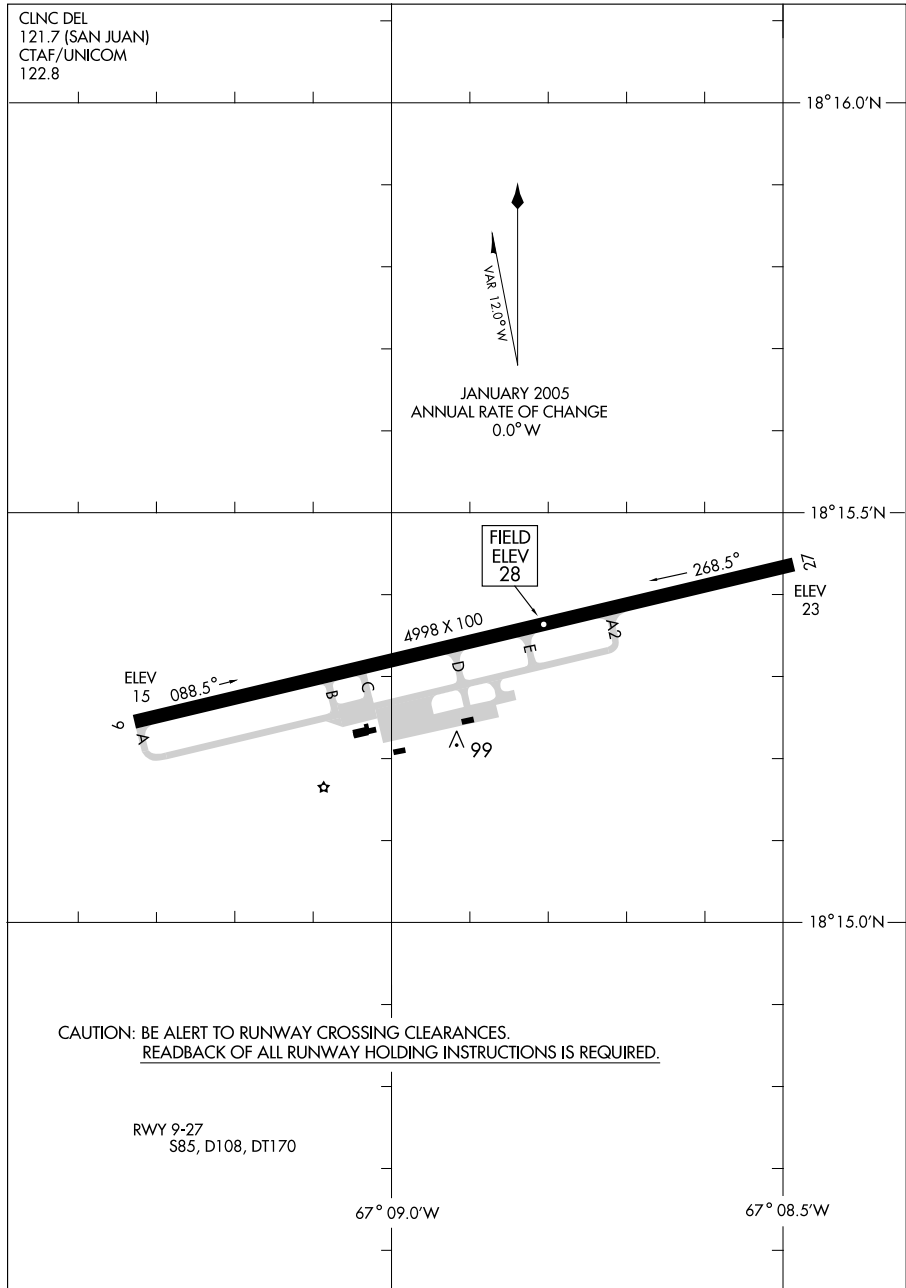
07074

AIRPORT DIAGRAM

MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)

AL-5328 (FAA)

MAYAGUEZ, PUERTO RICO



AIRPORT DIAGRAM

07074

MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)

MAYAGUEZ, PUERTO RICO

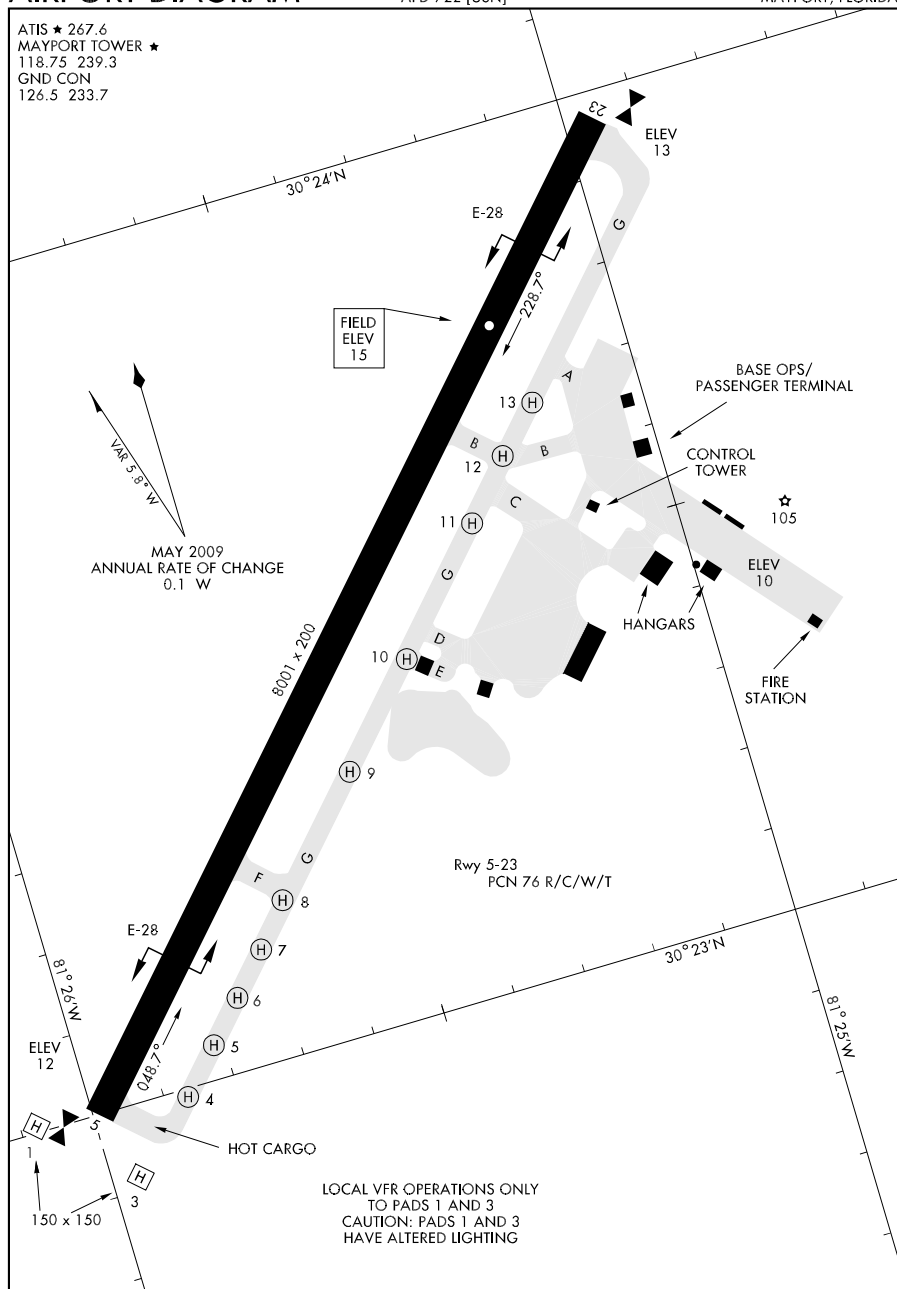
09127

AIRPORT DIAGRAM

MAYPORT NS (ADM DAVID L. MCDONALD FLD) (KNRB)
AFD-722 [USN]

MAYPORT, FLORIDA

ATIS ★ 267.6
MAYPORT TOWER ★
118.75 239.3
GND CON
126.5 233.7



AIRPORT DIAGRAM

MAYPORT, FLORIDA
MAYPORT NS (ADM DAVID L. MCDONALD FLD) (KNRB)

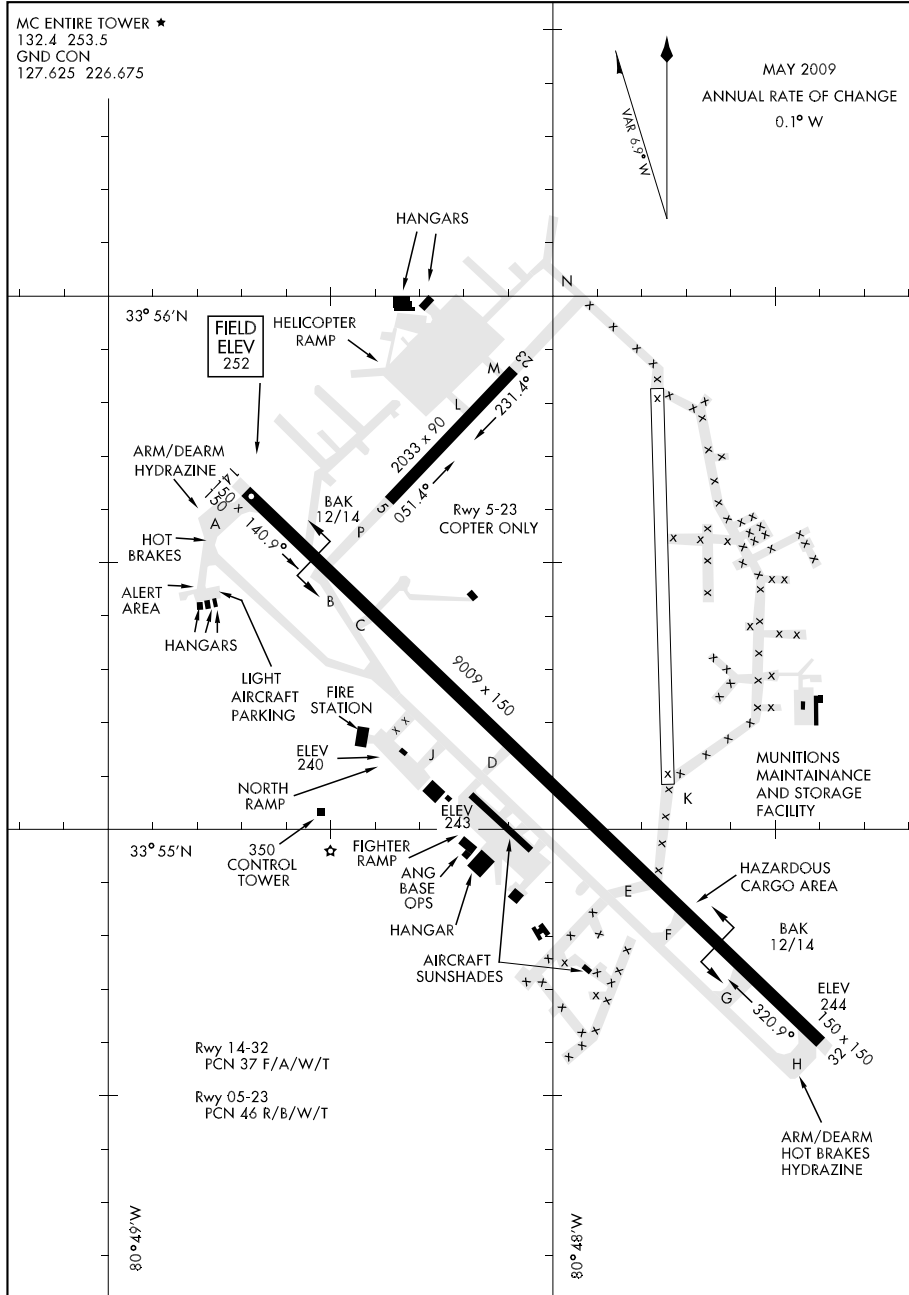
09127

AIRPORT DIAGRAM

AFD-951 [USAF]

MC ENTIRE JNGB (KMMT)

EASTOVER, SOUTH CAROLINA



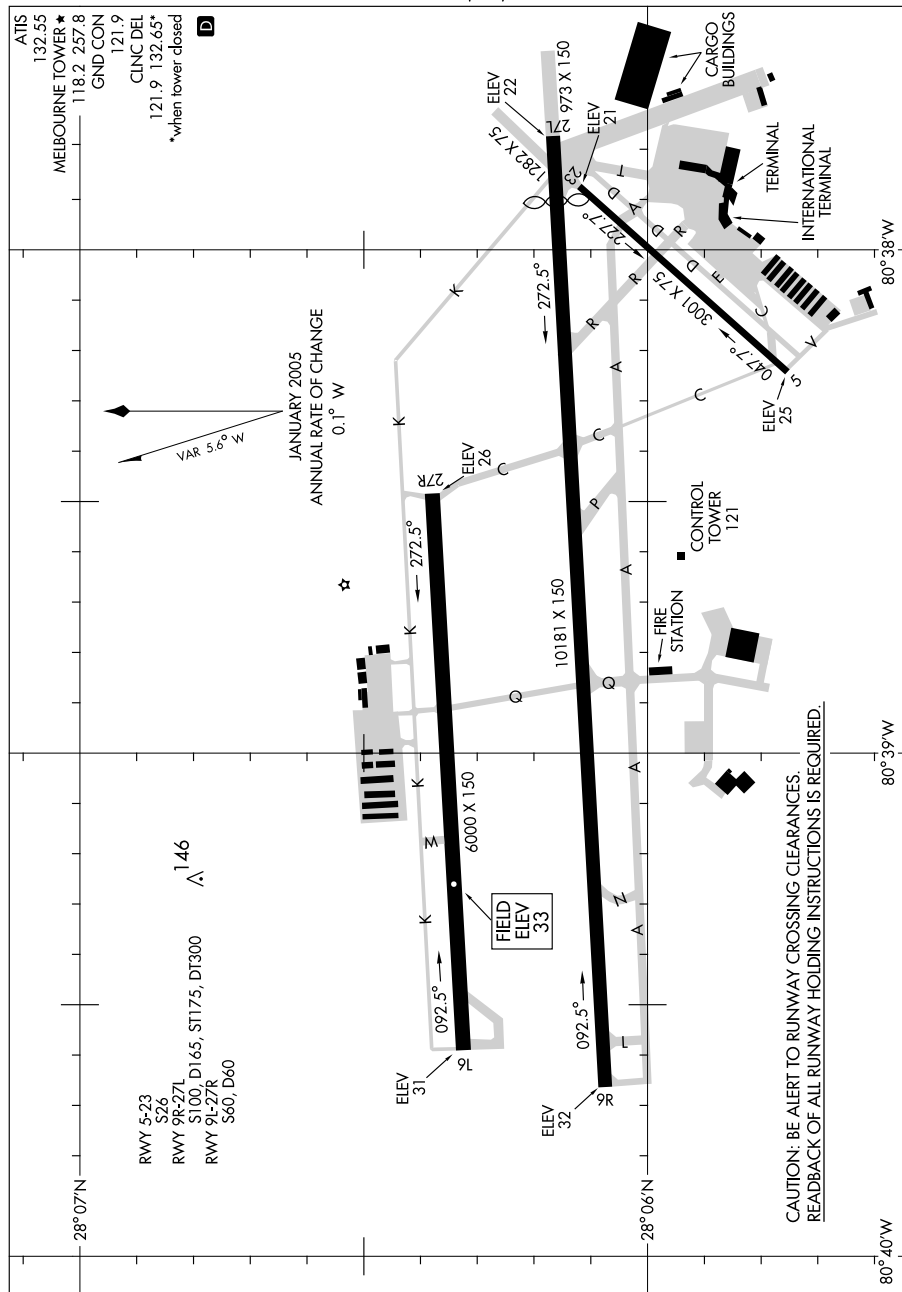
AIRPORT DIAGRAM

EASTOVER, SOUTH CAROLINA
MC ENTIRE JNGB (KMMT)

09015

AIRPORT DIAGRAM

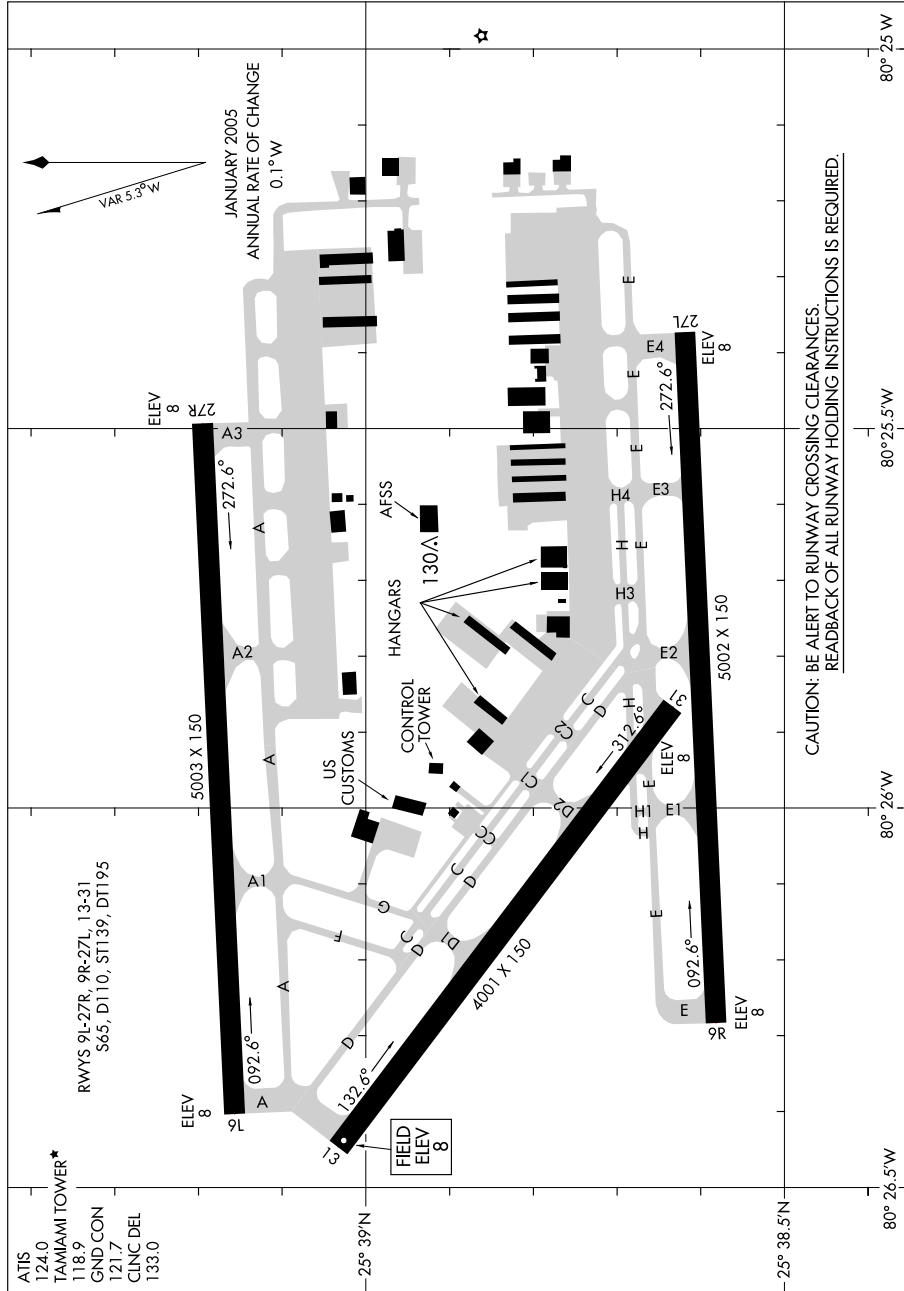
AL-252 (FAA)

MELBOURNE INTL (MLB)
MELBOURNE, FLORIDA

AIRPORT DIAGRAM

09015

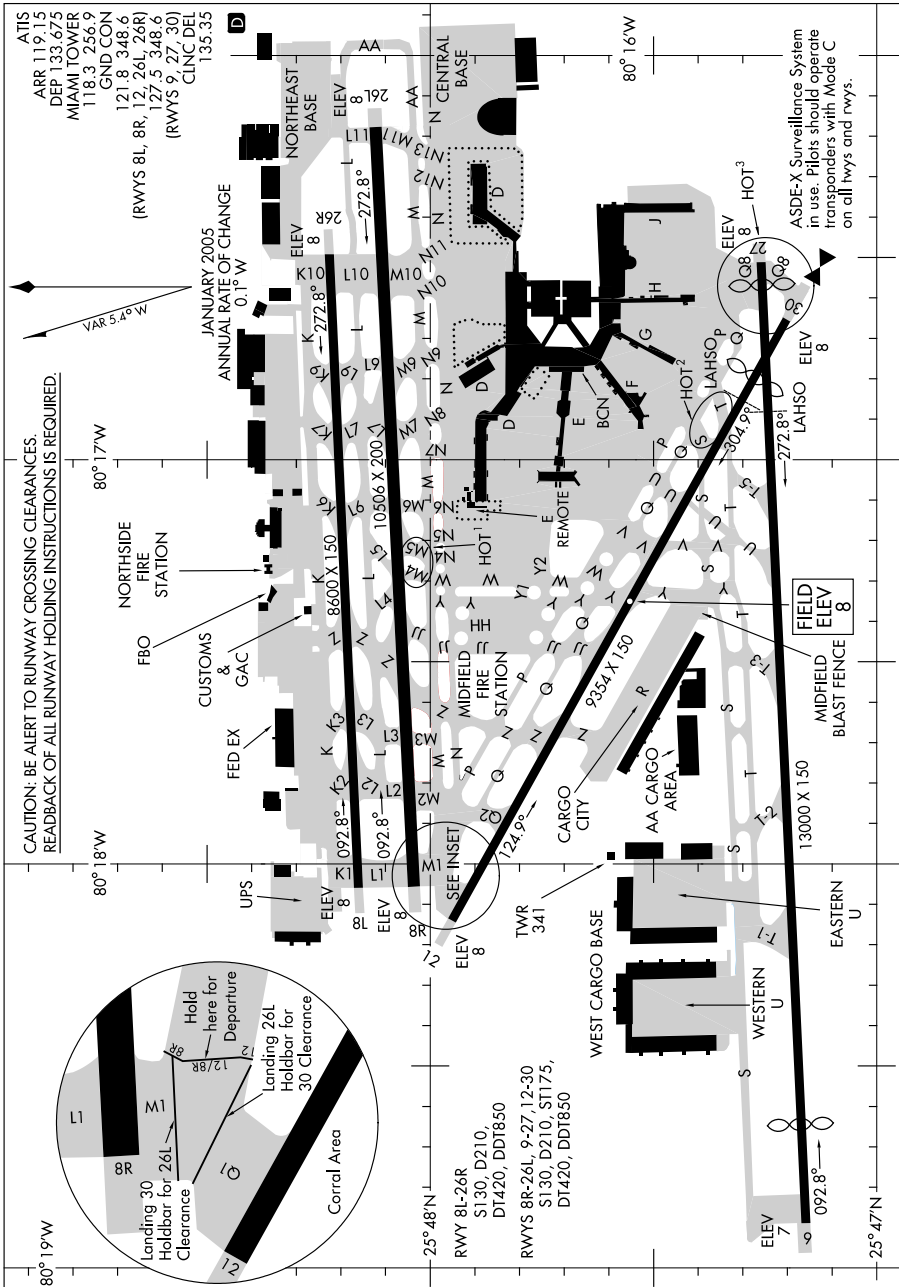
MELBOURNE, FLORIDA
MELBOURNE INTL (MLB)



10098

AIRPORT DIAGRAM

AL-257 (FAA)

MIAMI INTL (MIA)
MIAMI, FLORIDA

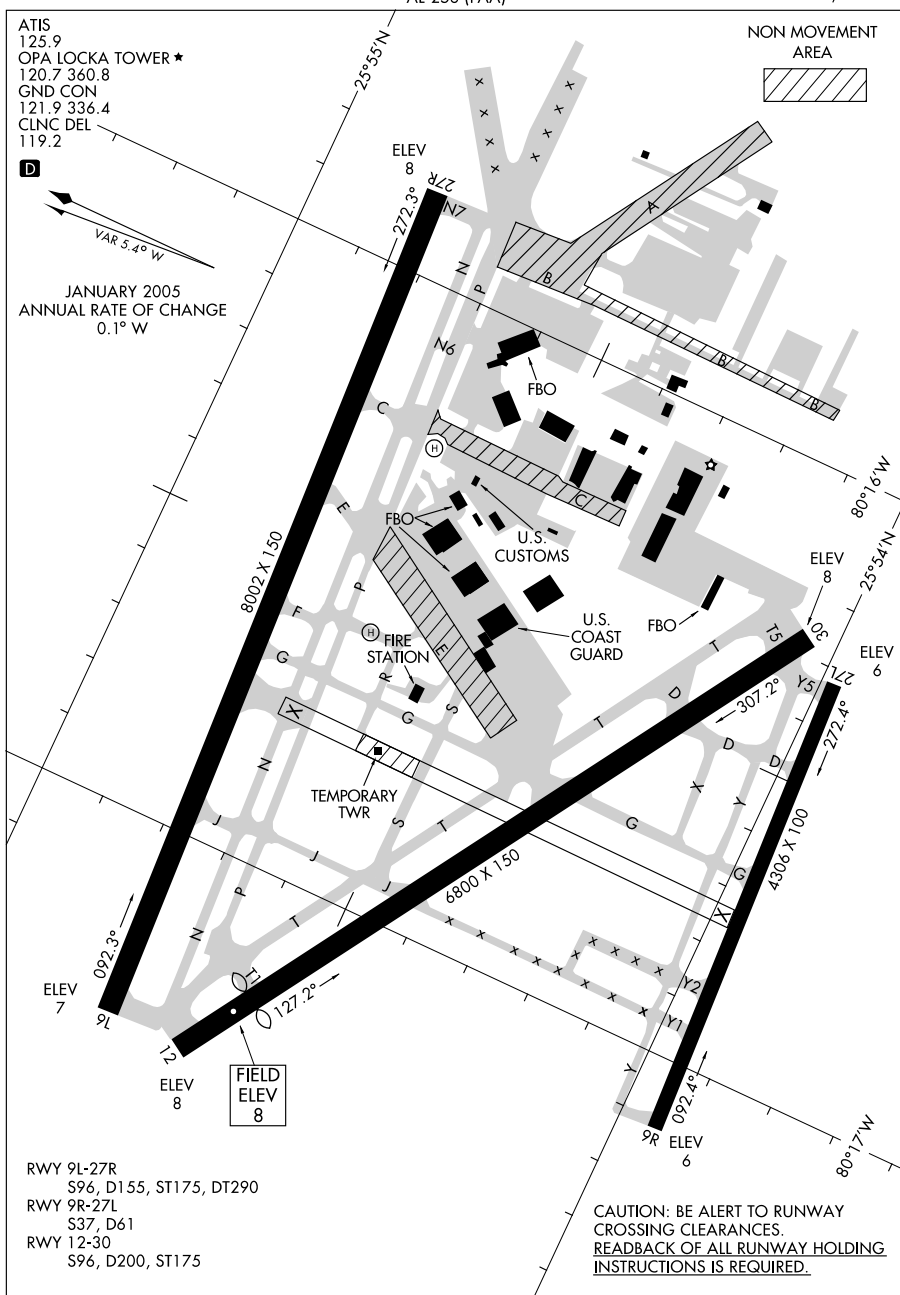
AIRPORT DIAGRAM

10098

MIAMI, FLORIDA
MIAMI INTL (MIA)

10098

AIRPORT DIAGRAM

MIAMI/OPA LOCKA EXECUTIVE (OPF)
MIAMI, FLORIDA

AIRPORT DIAGRAM

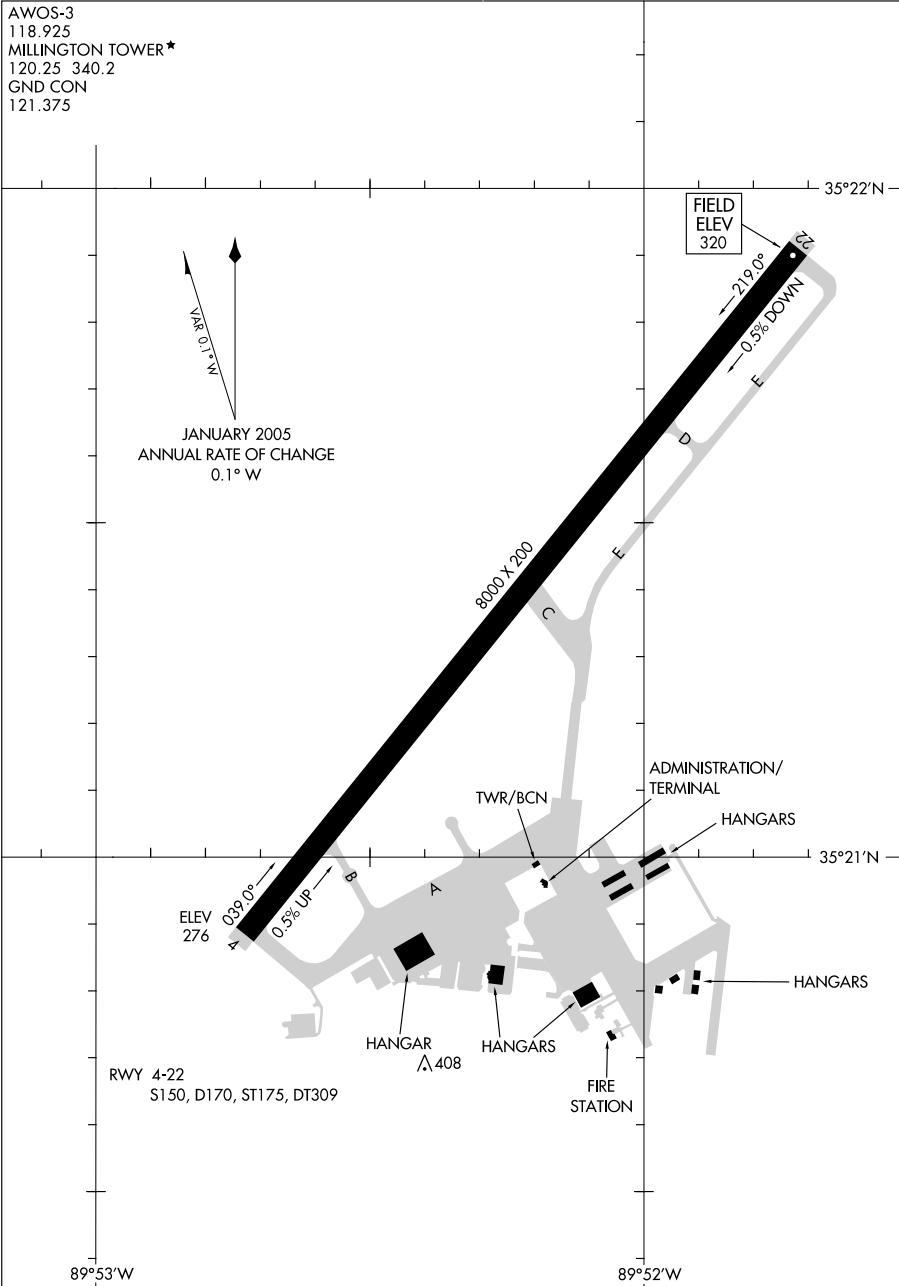
10098

MIAMI, FLORIDA
MIAMI/OPA LOCKA EXECUTIVE (OPF)

10154

AIRPORT DIAGRAM

AL-910 (FAA)

MILLINGTON RGNL JETPORT (NQA)
MILLINGTON, TENNESSEE

AIRPORT DIAGRAM

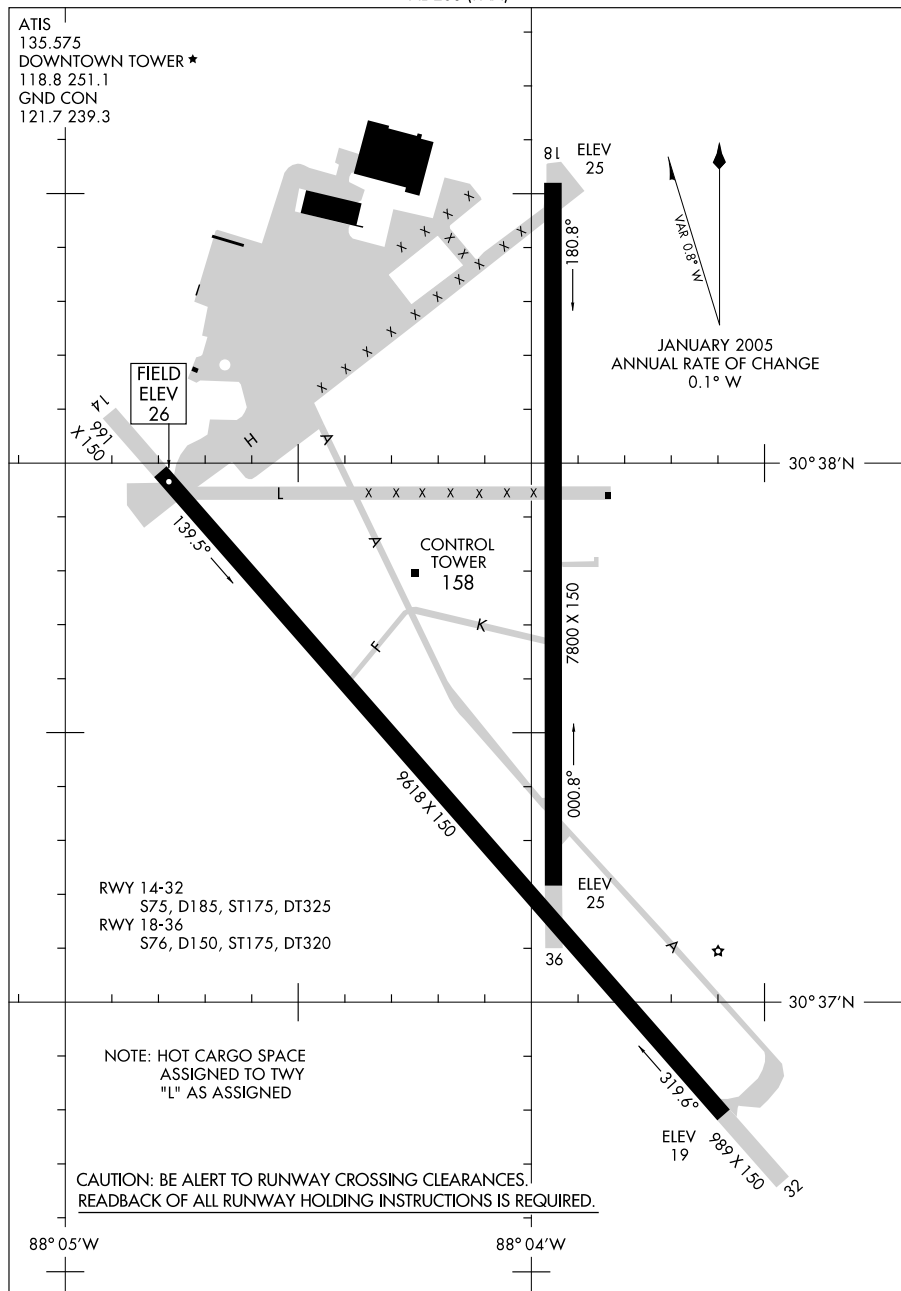
10154

MILLINGTON, TENNESSEE
MILLINGTON RGNL JETPORT (NQA)

07298

AIRPORT DIAGRAM

AL-268 (FAA)

MOBILE DOWNTOWN (BFM)
MOBILE, ALABAMA

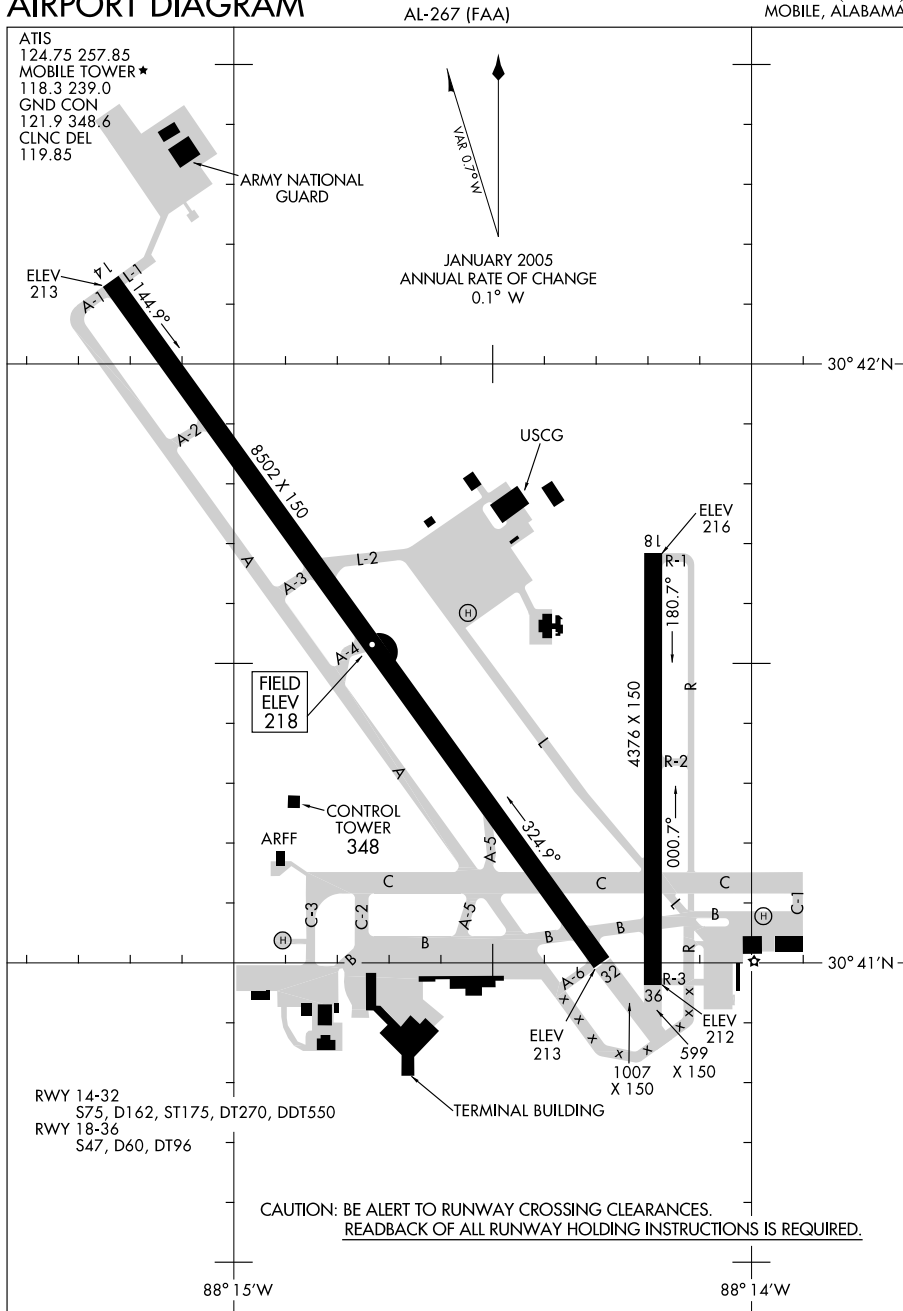
AIRPORT DIAGRAM

07298

MOBILE, ALABAMA
MOBILE DOWNTOWN (BFM)

08101

AIRPORT DIAGRAM

MOBILE RGNL (MOB)
MOBILE, ALABAMA

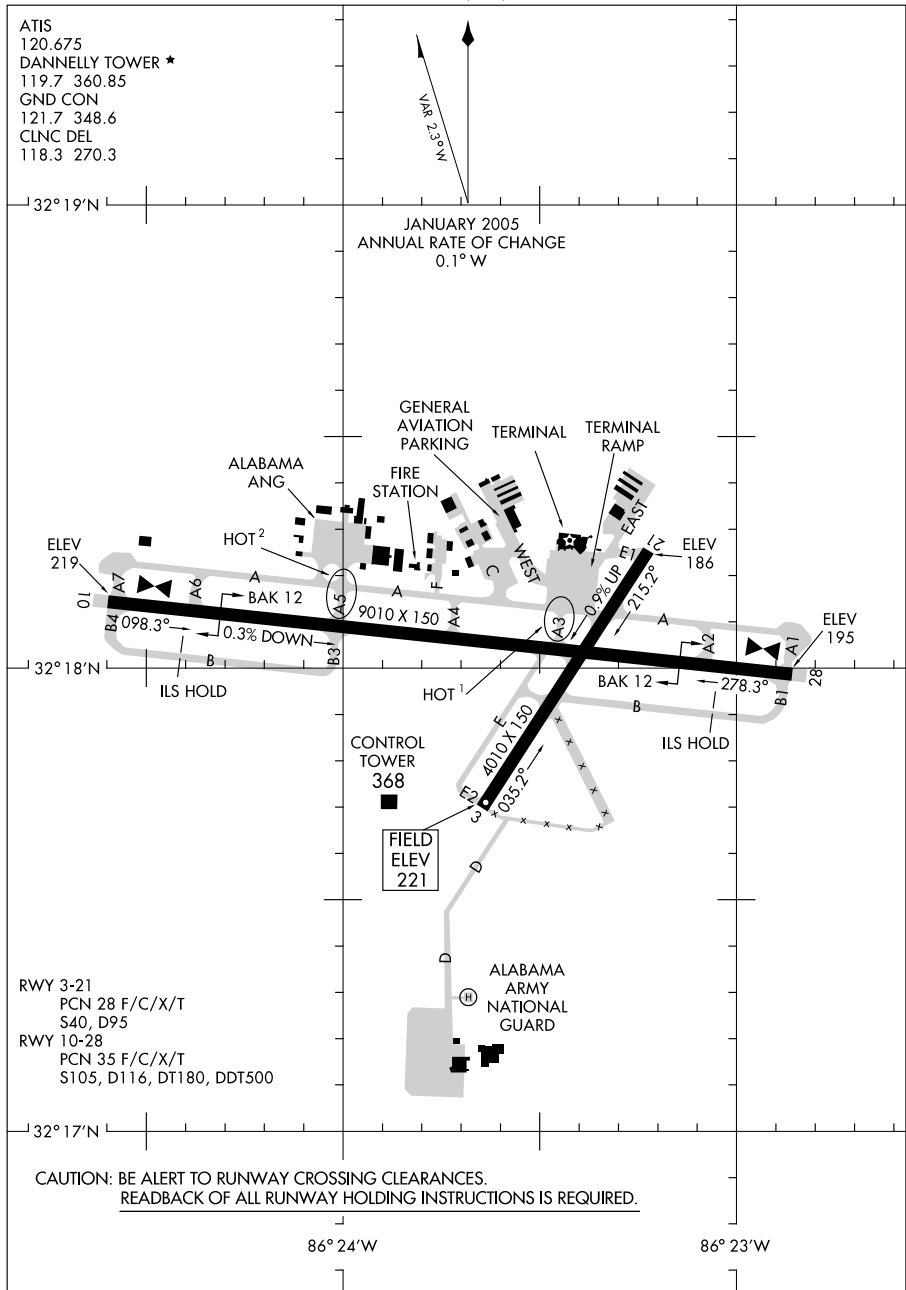
AIRPORT DIAGRAM

08101

MOBILE, ALABAMA
MOBILE RGNL (MOB)

09071

AIRPORT DIAGRAM



AIRPORT DIAGRAM

09071

MONTGOMERY, ALABAMA
MONTGOMERY RGNL (DANNELLY FIELD)(MGM)

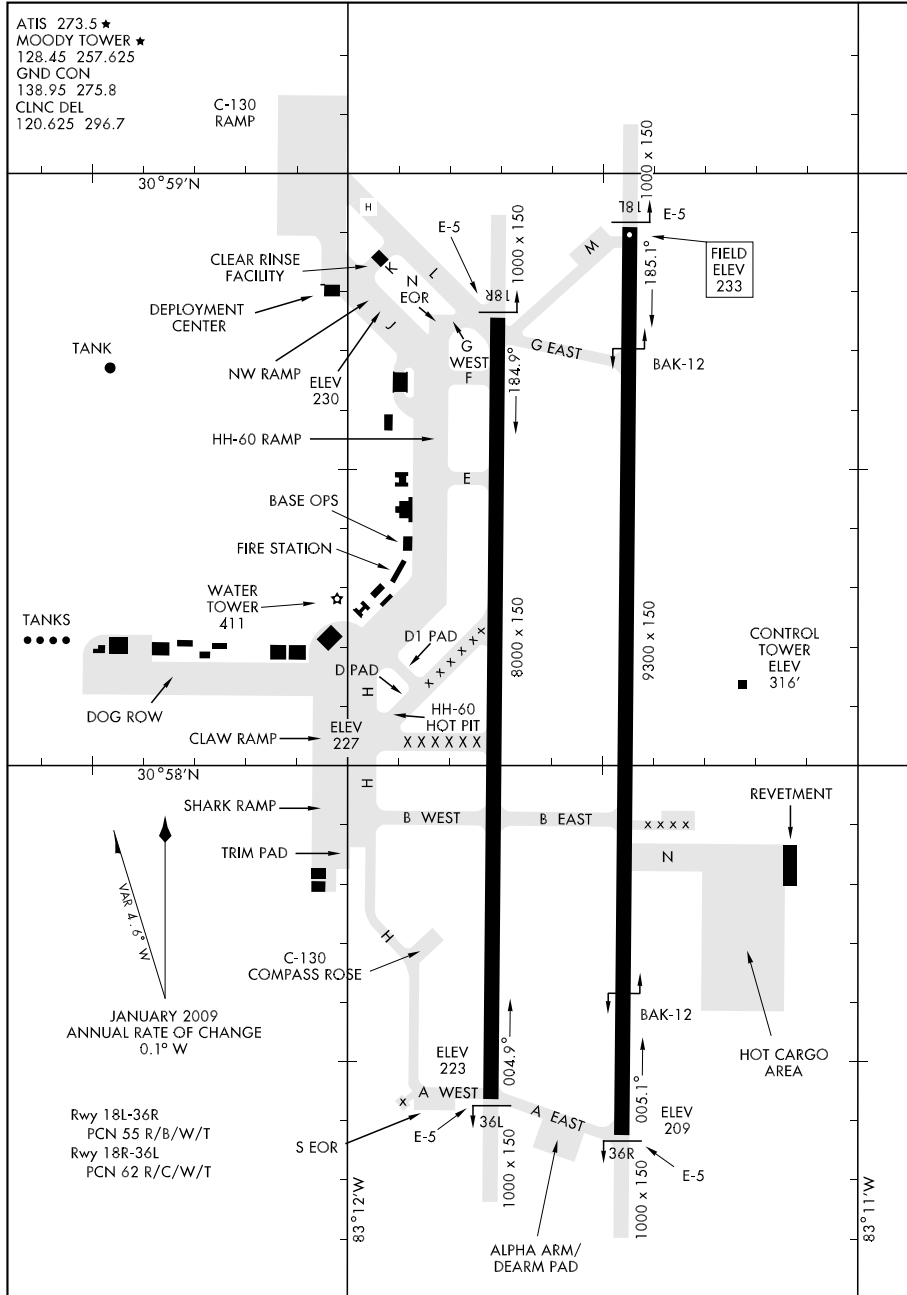
09015

MOODY AFB (KVAD)

AIRPORT DIAGRAM

AFD-435 [USAF]

VALDOSTA, GEORGIA



AIRPORT DIAGRAM

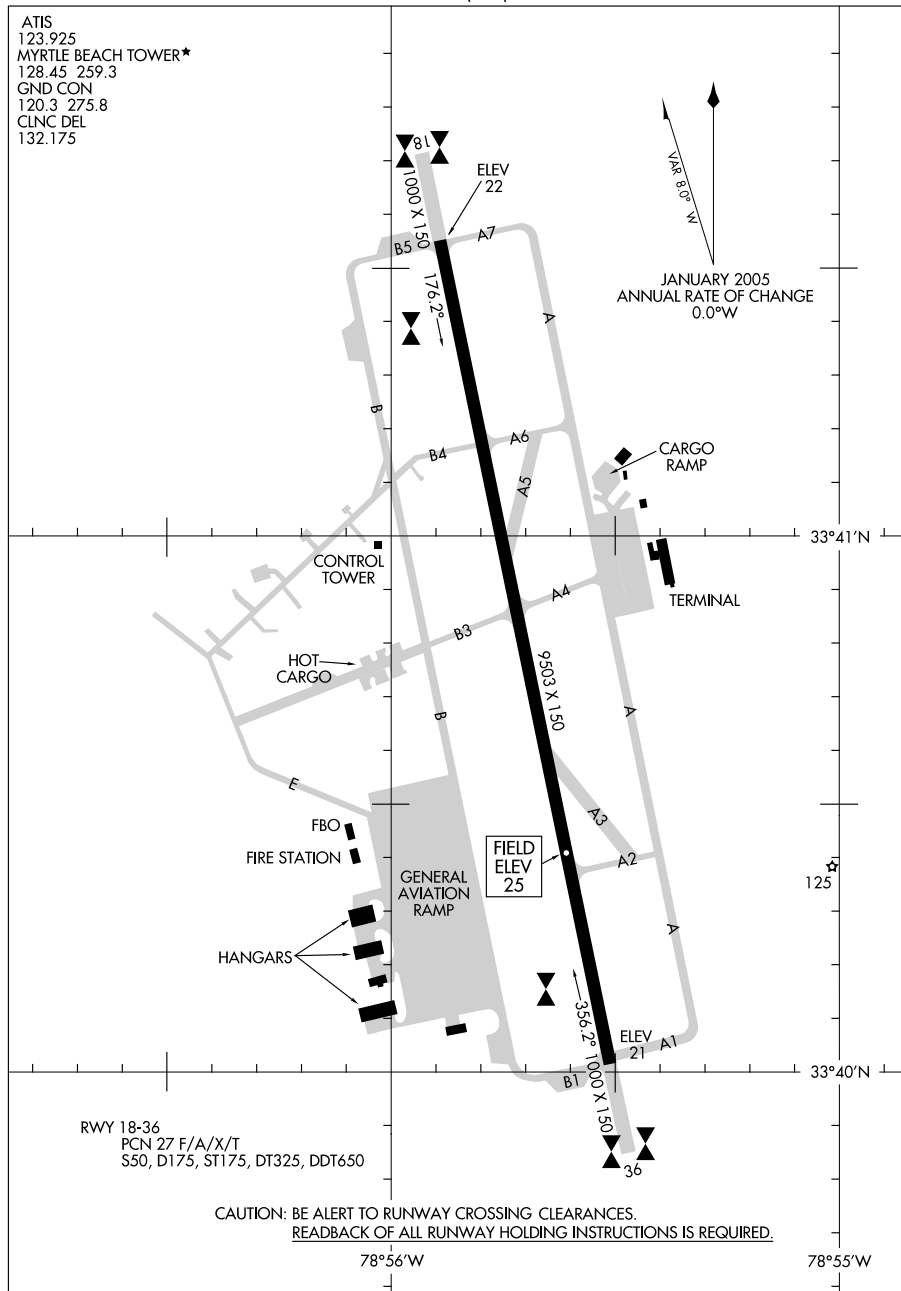
VALDOSTA, GEORGIA
MOODY AFB (KVAD)

SE, 03 JUN 2010 to 29 JUL 2010

09351

AIRPORT DIAGRAM

AL-280 (FAA)

MYRTLE BEACH INTL (MYR)
MYRTLE BEACH, SOUTH CAROLINA

AIRPORT DIAGRAM

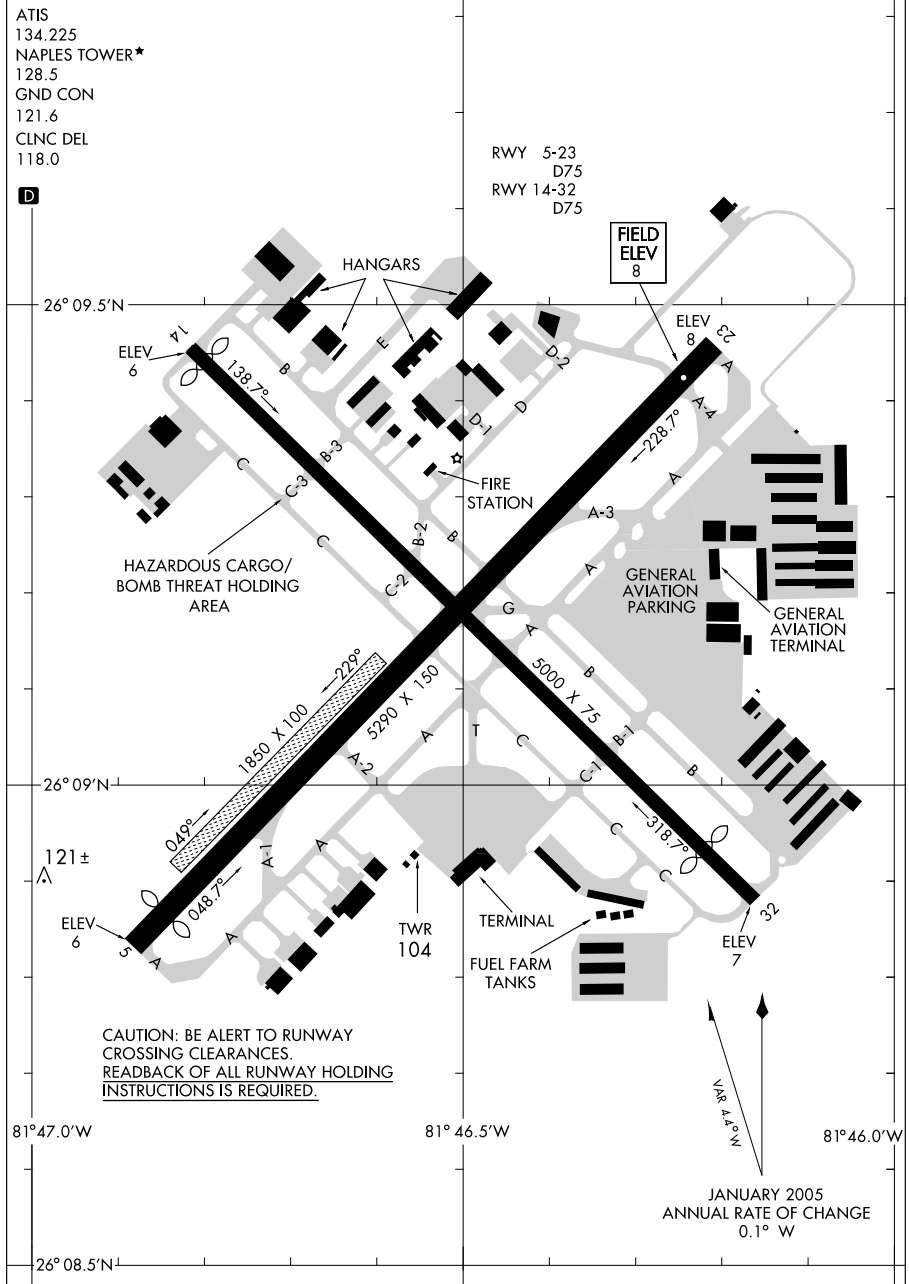
09351

MYRTLE BEACH, SOUTH CAROLINA
MYRTLE BEACH INTL (MYR)

10154

AIRPORT DIAGRAM

AL-6020 (FAA)

NAPLES MUNI (APF)
NAPLES, FLORIDA

AIRPORT DIAGRAM

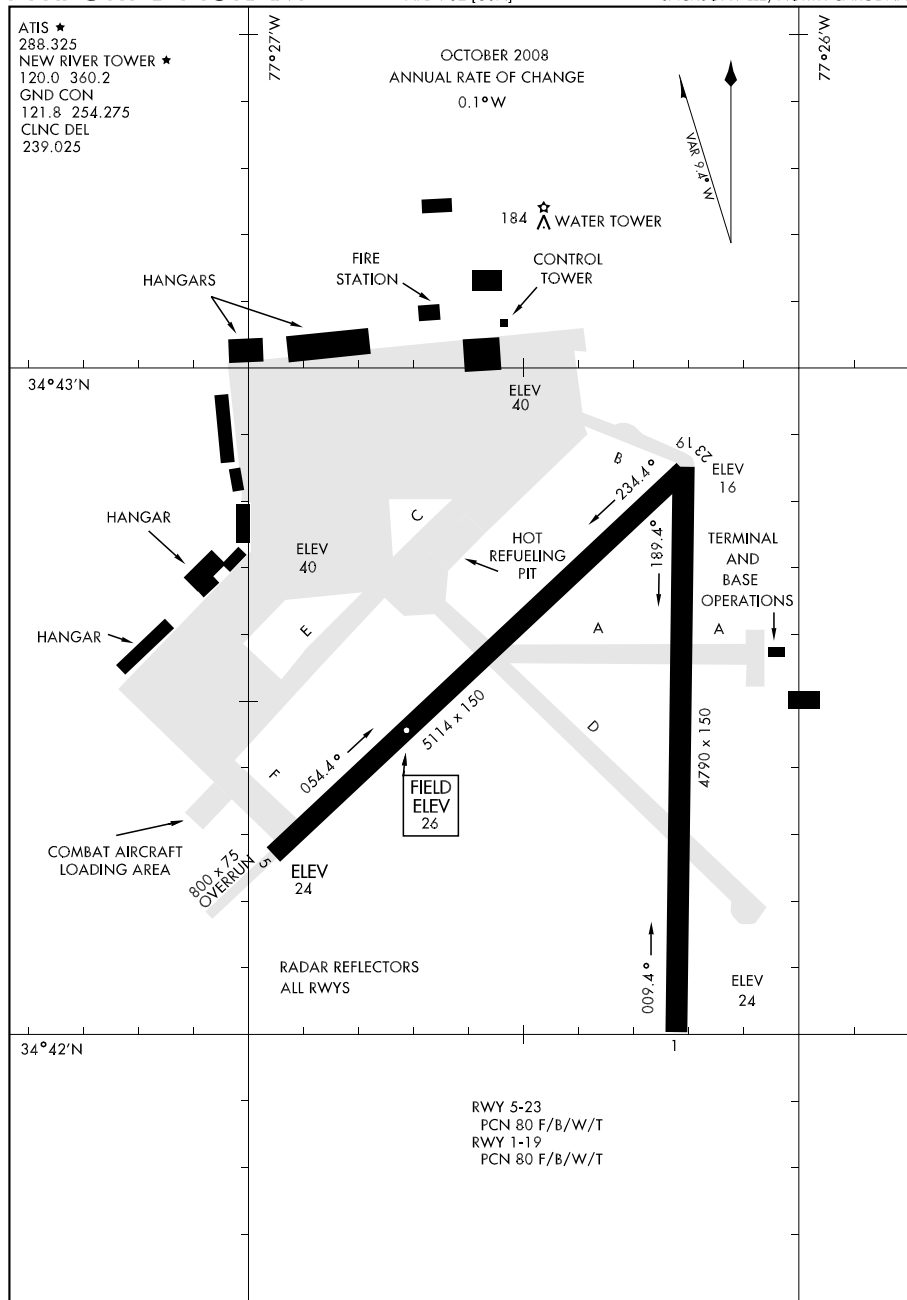
10154

NAPLES, FLORIDA
NAPLES MUNI (APF)

08325

AIRPORT DIAGRAM

AFD-732 [USN]

NEW RIVER MCAS (KNCA)
JACKSONVILLE, NORTH CAROLINA

AIRPORT DIAGRAM

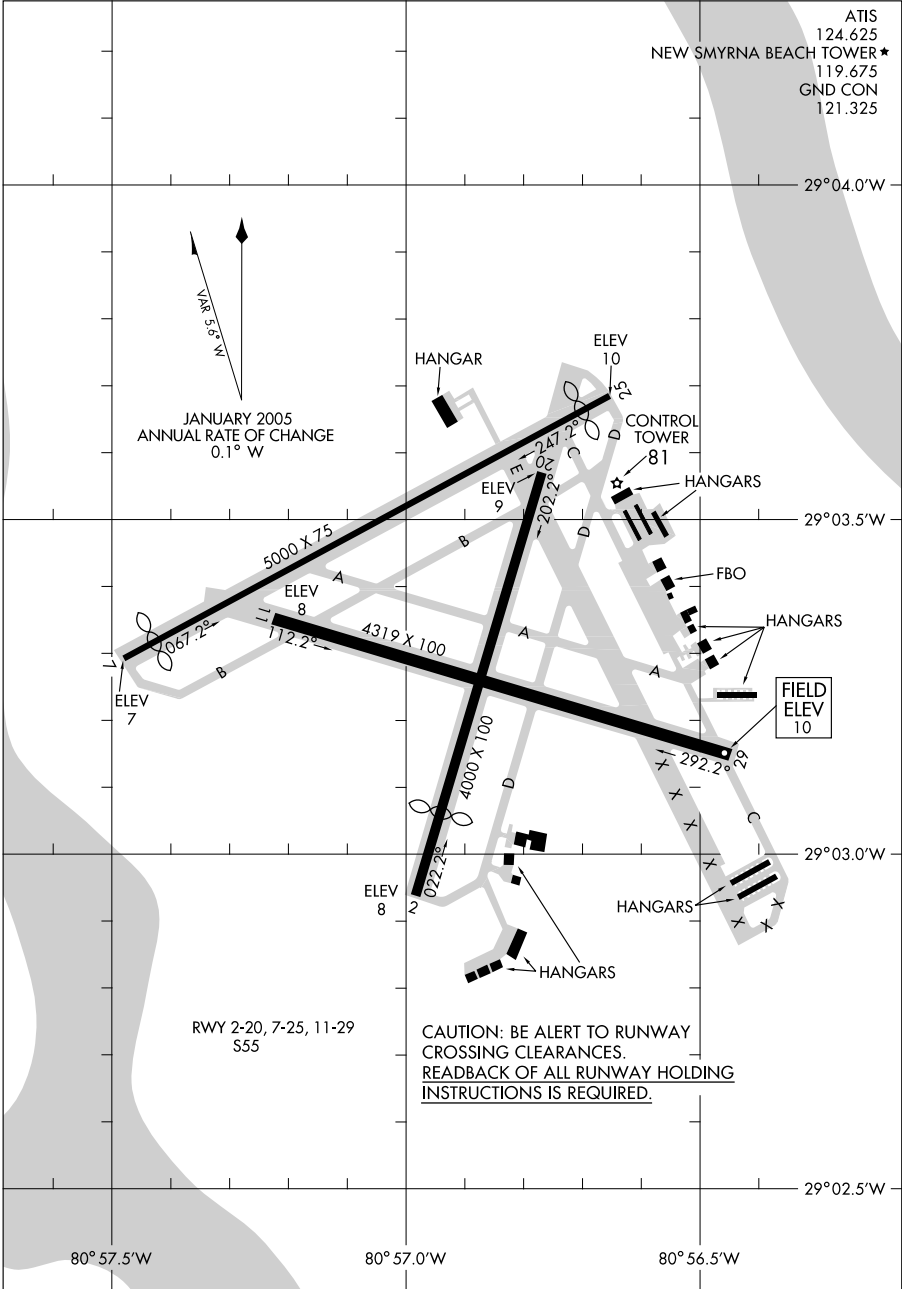
JACKSONVILLE, NORTH CAROLINA
NEW RIVER MCAS (KNCA)

09295

AIRPORT DIAGRAM

AL-6459 (FAA)

NEW SMYRNA BEACH MUNI (EVB)
NEW SMYRNA BEACH, FLORIDA



AIRPORT DIAGRAM

09295

NEW SMYRNA BEACH, FLORIDA
NEW SMYRNA BEACH MUNI (EVB)

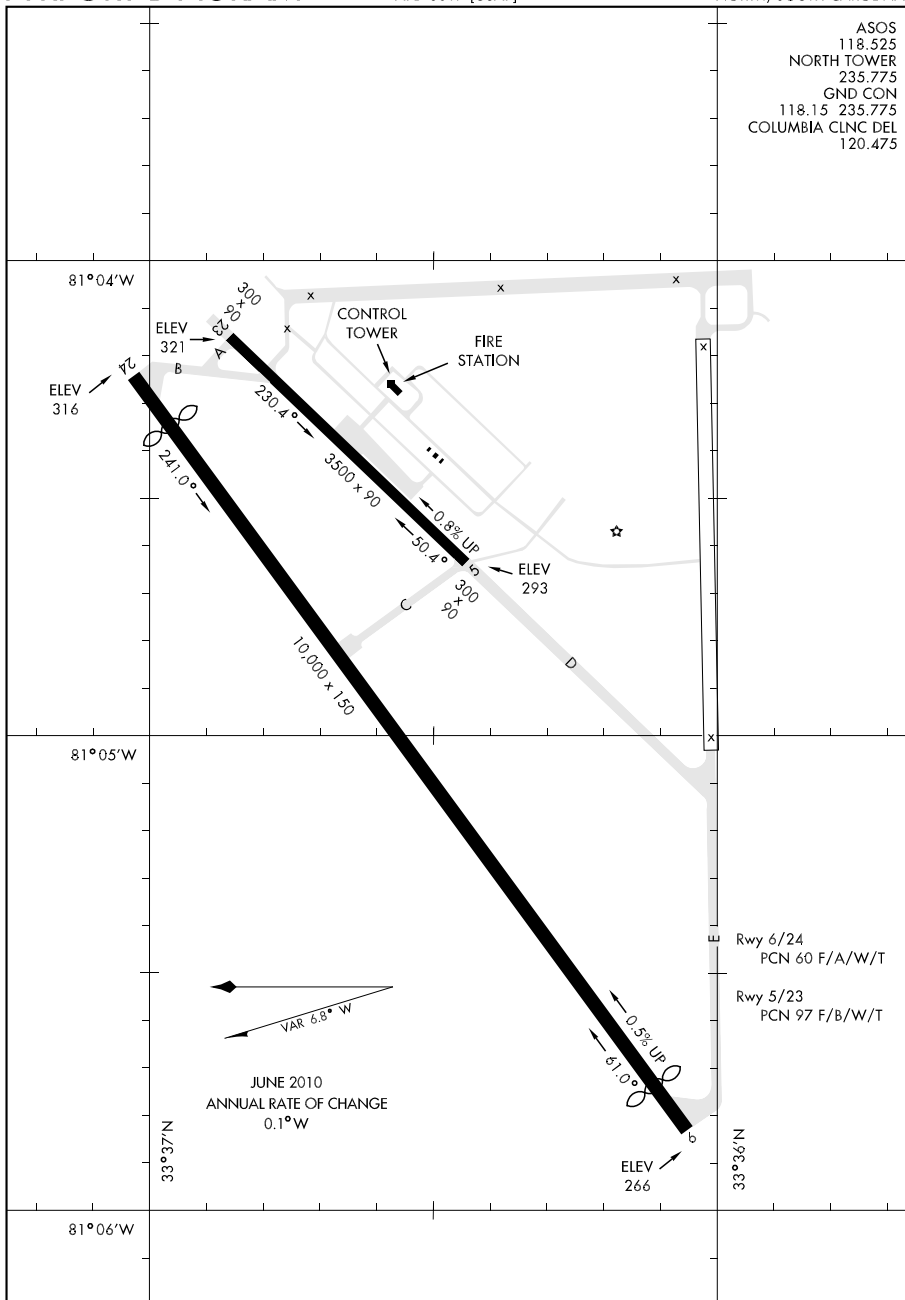
Orig 10154

AIRPORT DIAGRAM

AFD-3017 [USAF]

NORTH AF AUX (KXNO)

NORTH, SOUTH CAROLINA



AIRPORT DIAGRAM

NORTH, SOUTH CAROLINA
NORTH AF AUX (KXNO)

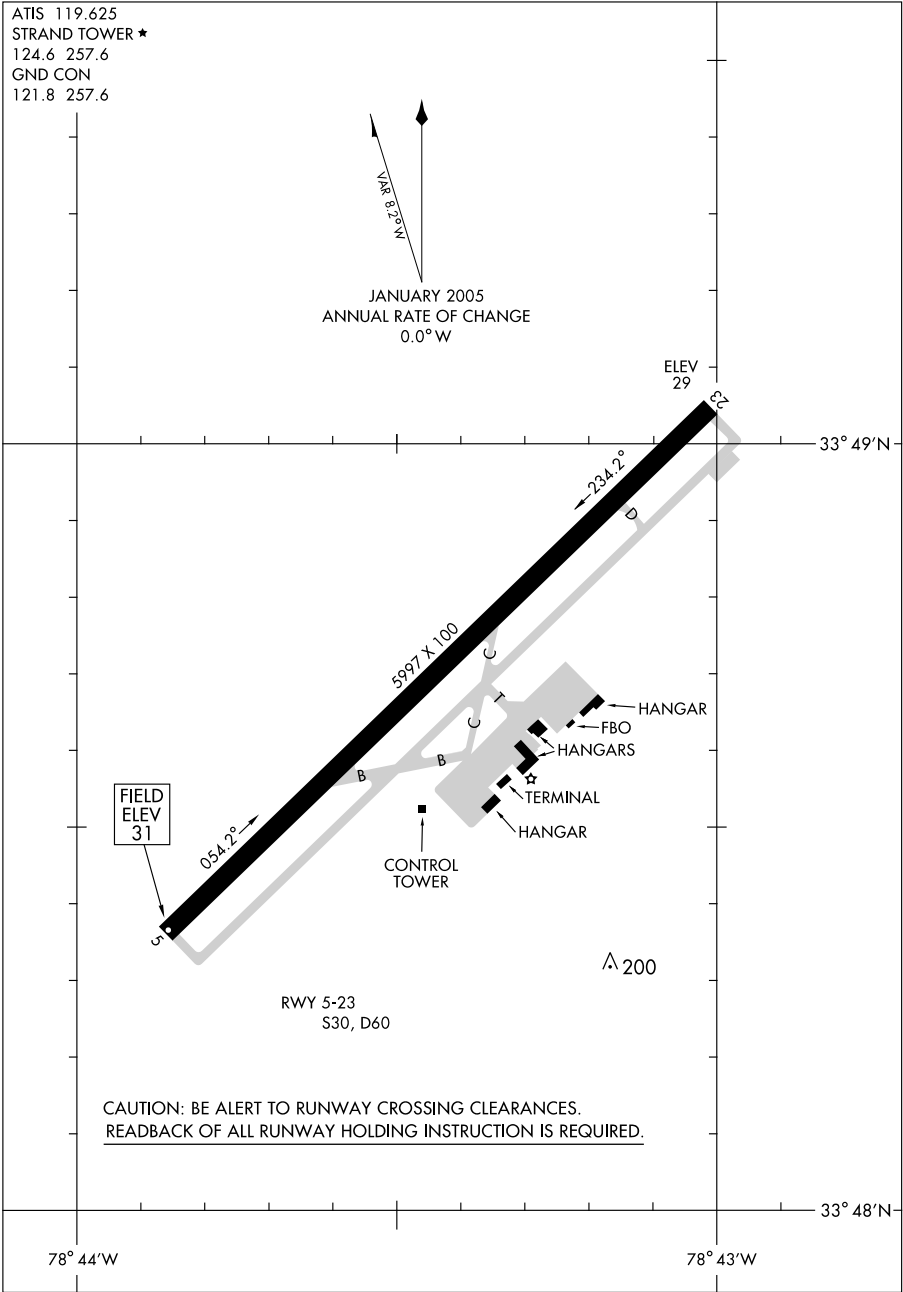
08213

AIRPORT DIAGRAM

NORTH MYRTLE BEACH/GRAND STRAND (C'RE)
NORTH MYRTLE BEACH, SOUTH CAROLINA

AL-5097 (FAA)

ATIS 119.625
STRAND TOWER ★
124.6 257.6
GND CON
121.8 257.6



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBCK OF ALL RUNWAY HOLDING INSTRUCTION IS REQUIRED.

AIRPORT DIAGRAM

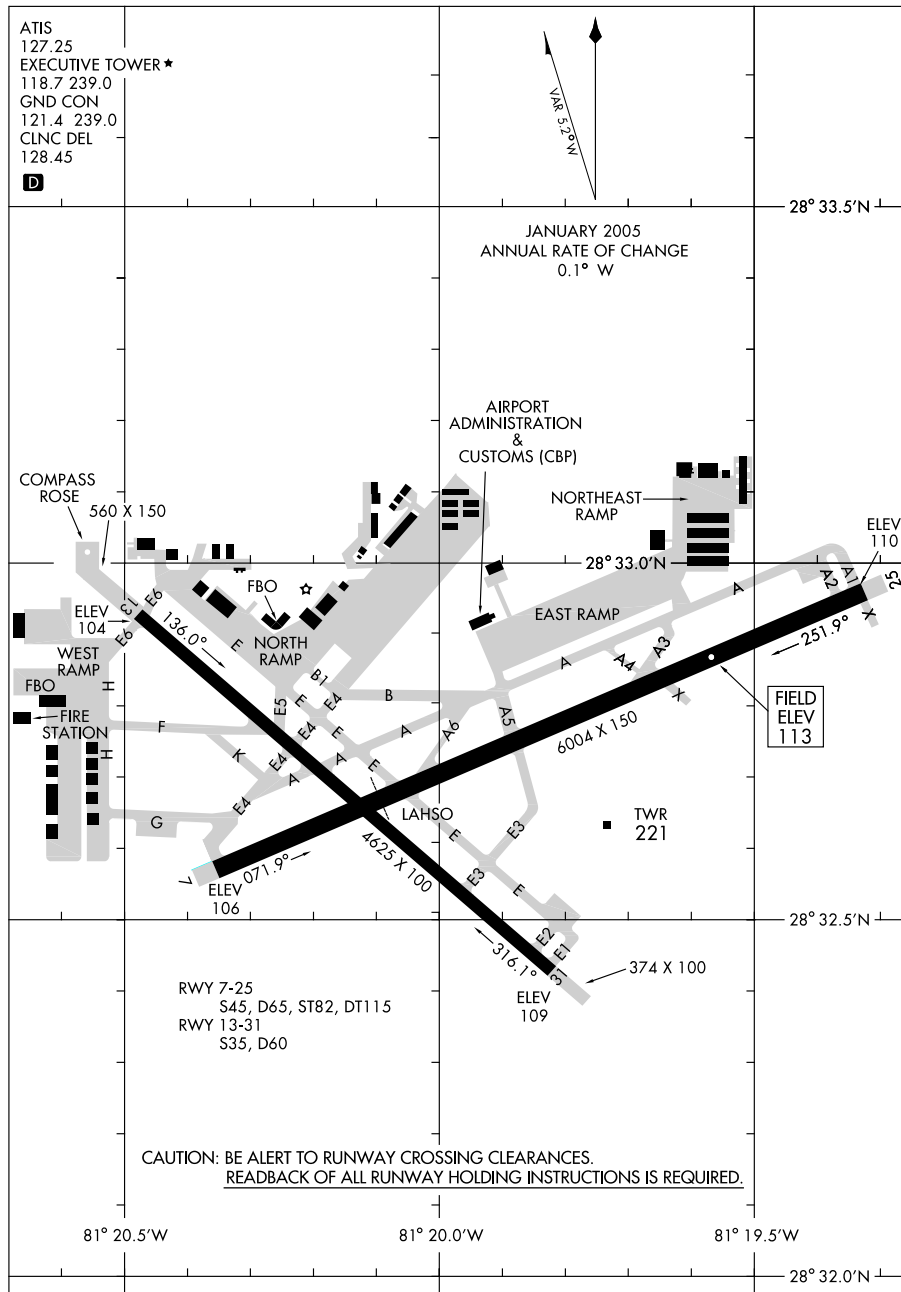
08213

33° 49' N - 78° 44' W
NORTH MYRTLE BEACH, SOUTH CAROLINA
NORTH MYRTLE BEACH/GRAND STRAND (C'RE)

10042

AIRPORT DIAGRAM

AL-305 (FAA)

ORLANDO/EXECUTIVE (ORL)
ORLANDO, FLORIDA

AIRPORT DIAGRAM

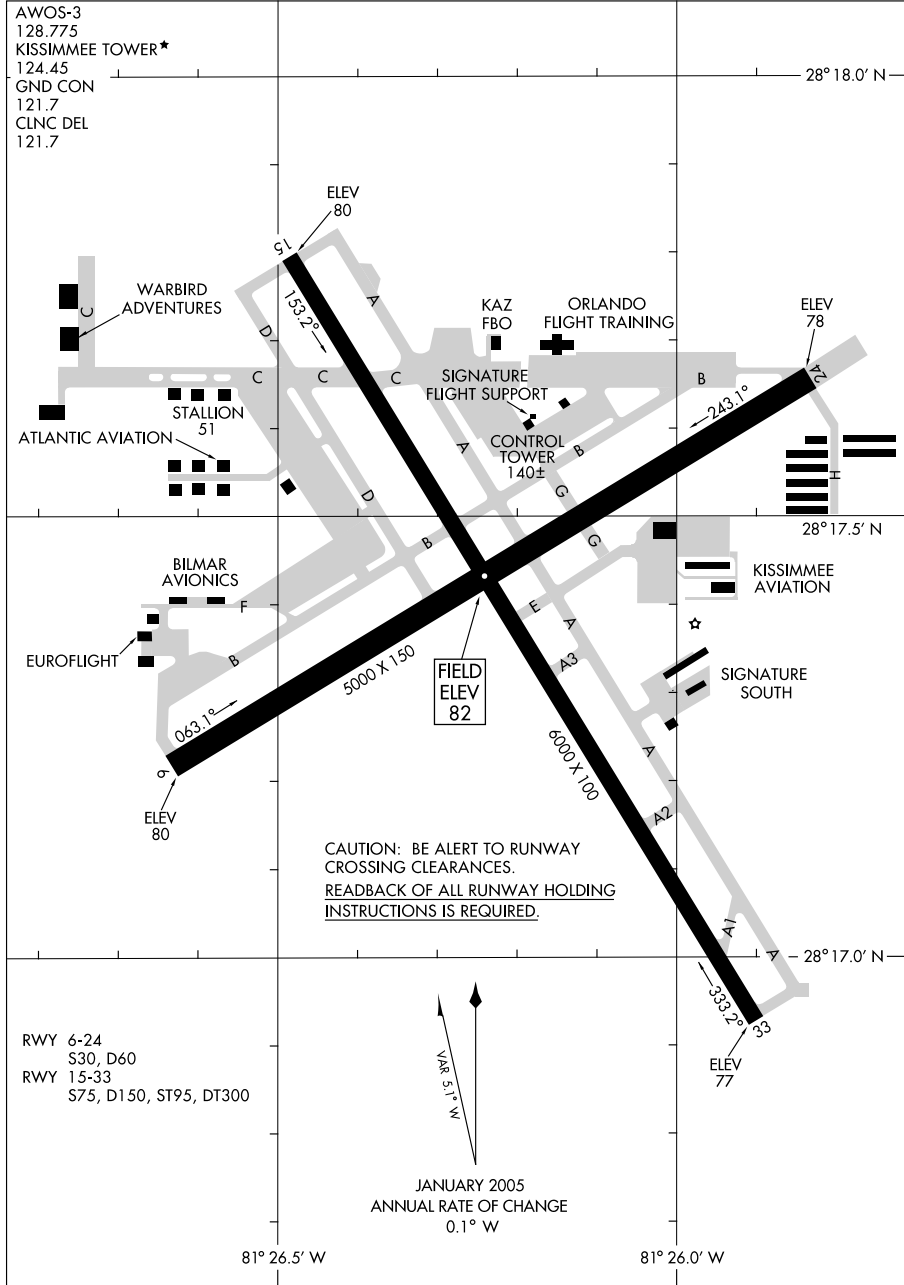
10042

ORLANDO, FLORIDA
ORLANDO/EXECUTIVE (ORL)

10042

AIRPORT DIAGRAM

ORLANDO/KISSIMMEE GATEWAY (ISM)
AL-5793 (FAA)
ORLANDO, FLORIDA



AIRPORT DIAGRAM

10042

ORLANDO, FLORIDA
ORLANDO/KISSIMMEE GATEWAY (ISM)

08157

AIRPORT DIAGRAM

AL-5459 (FAA)

ORMOND BEACH MUNI (OMN)

ORMOND BEACH, FLORIDA

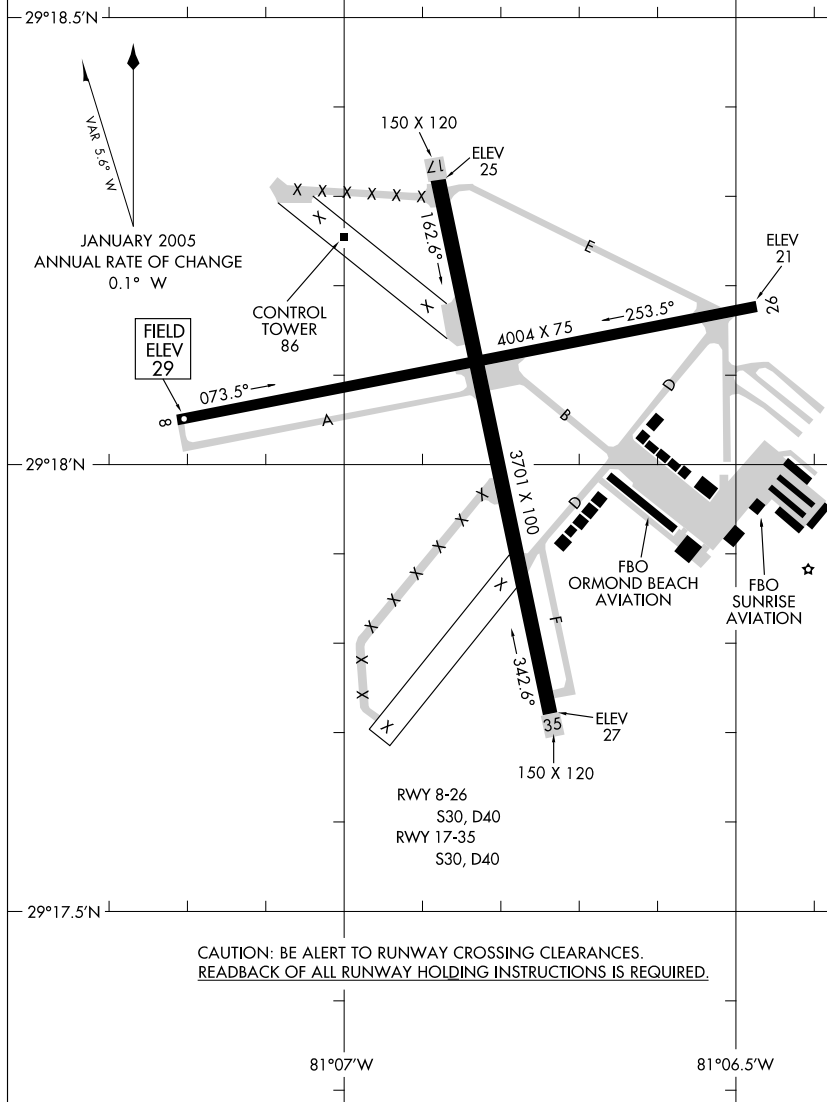
ATIS 118.475

ORMOND BEACH TOWER ★

119.075

GND CON 121.625

CLNC DEL 121.625



AIRPORT DIAGRAM

08157

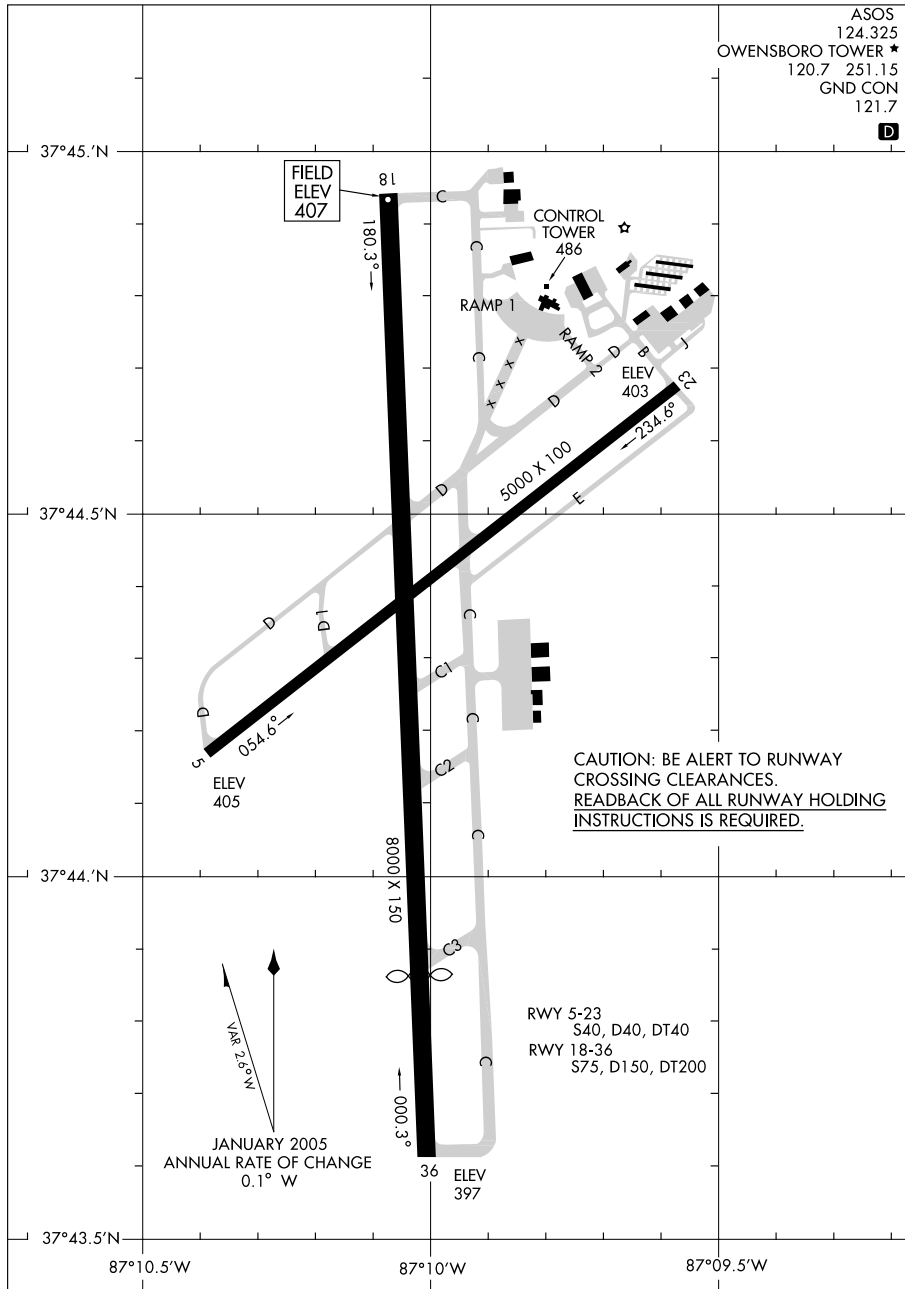
ORMOND BEACH, FLORIDA

ORMOND BEACH MUNI (OMN)

09071

AIRPORT DIAGRAM

AL-707 (FAA)

OWENSBORO-DAVIESS COUNTY (OWB)
OWENSBORO, KENTUCKY

AIRPORT DIAGRAM

09071

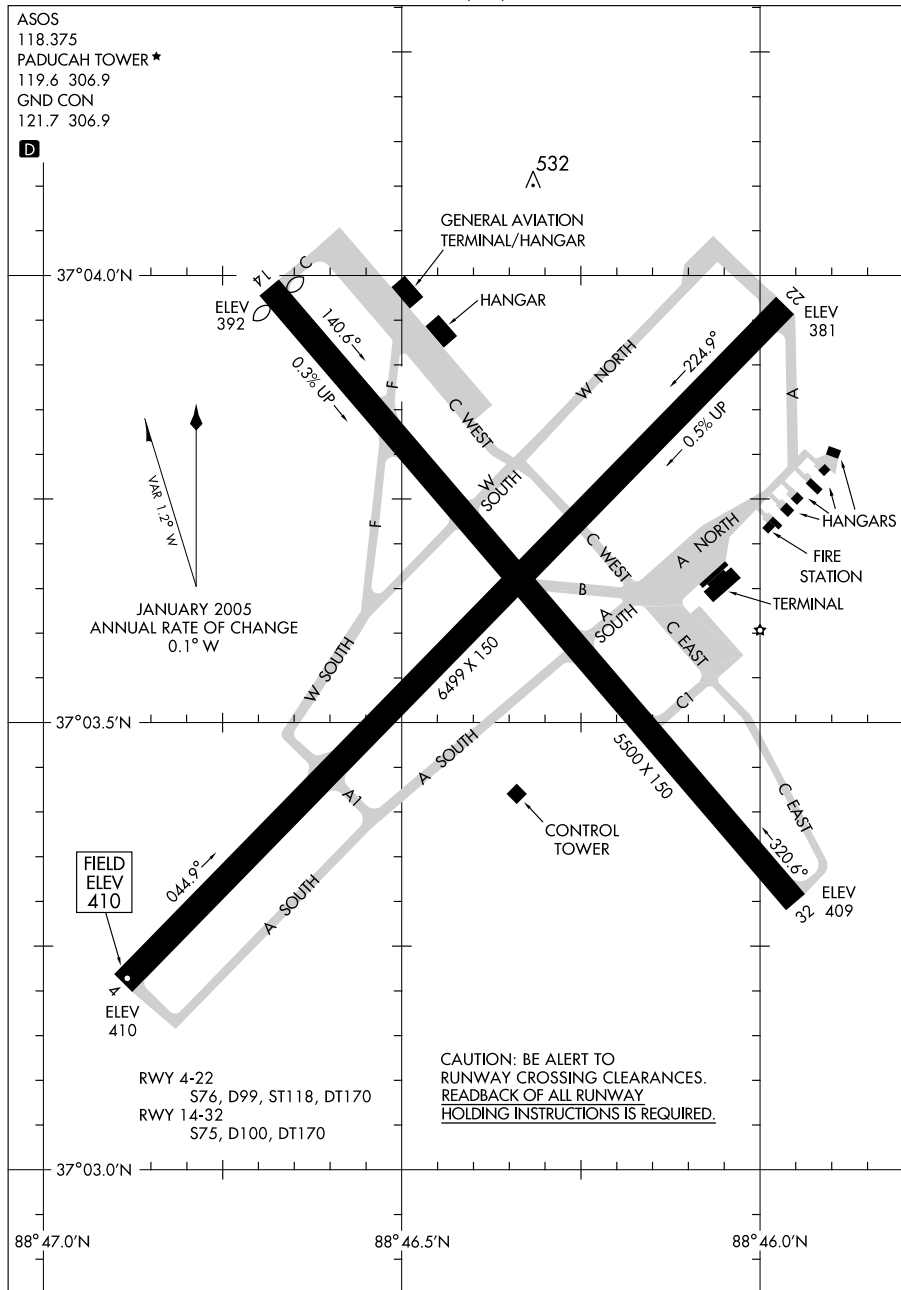
OWENSBORO, KENTUCKY
OWENSBORO-DAVIESS COUNTY (OWB)

09071

AIRPORT DIAGRAM

PADUCAH/BARKLEY RGNL (PAH)
PADUCAH, KENTUCKY

AL-628 (FAA)



AIRPORT DIAGRAM

09071

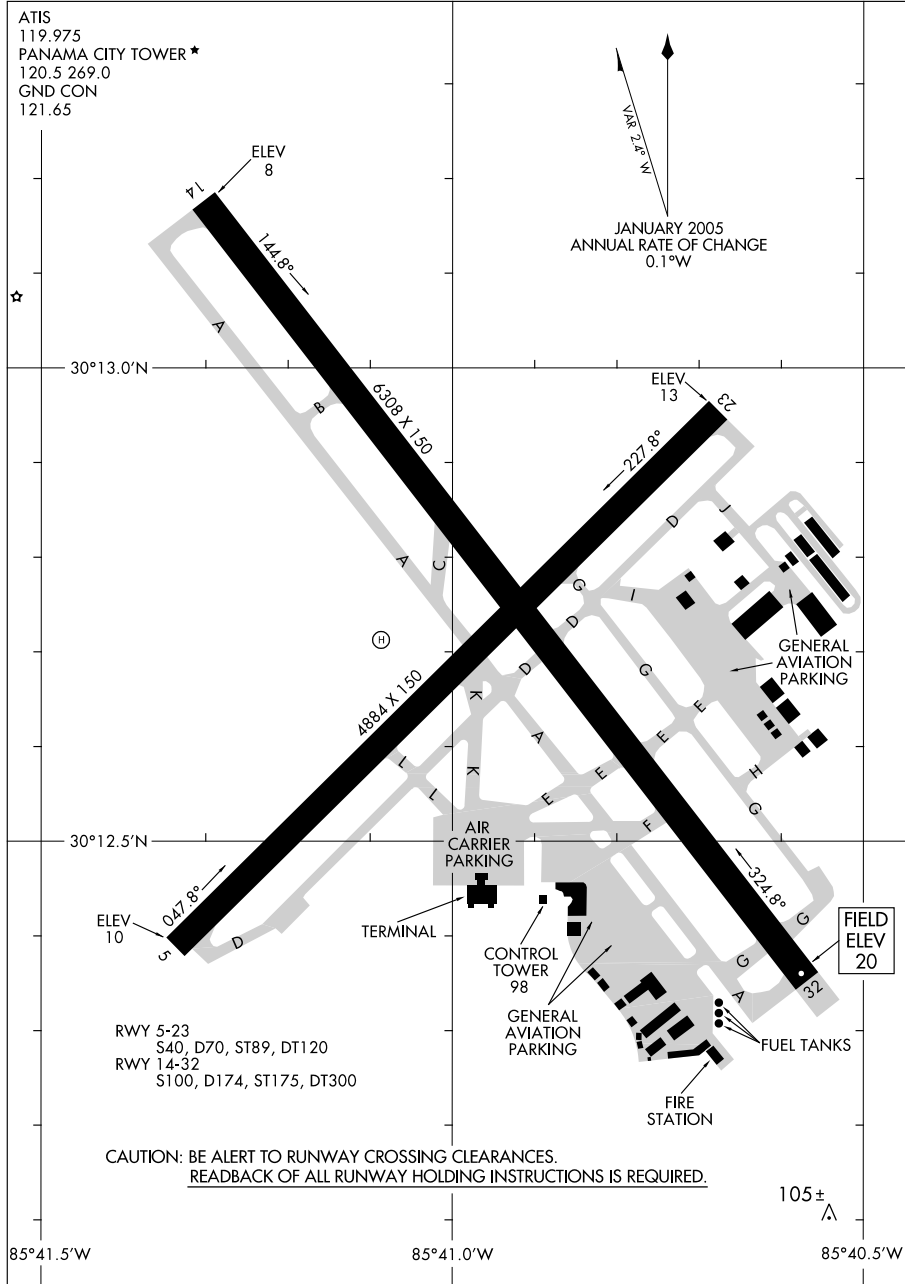
PADUCAH, KENTUCKY
PADUCAH/BARKLEY RGNL (PAH)

09183

AIRPORT DIAGRAM

PANAMA CITY-BAY COUNTY INTL (PFN)
PANAMA CITY, FLORIDA

AL-695 (FAA)



AIRPORT DIAGRAM

09183

PANAMA CITY, FLORIDA
PANAMA CITY-BAY COUNTY INTL (PFN)

10154

AIRPORT DIAGRAM

PANAMA CITY/NORTHWEST FLORIDA - PANAMA CITY INTL (ECP)
AL-10416 (FAA) PANAMA CITY, FLORIDA

ATIS

119.975

PANAMA CITY TOWER ★

118.95

GND CON

121.65

D

FIELD
ELEV
69

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBCK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

TERMINAL

TWR

MAINTENANCE

FIRE
STATION

HANGARS

HELICOPTER
PARKING

RWY 16-34

S100, D155, DT400, DDT750

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

VAR 2.4° N

10000 X 150

3418

ELEV
54

85°48'W

85°47'W

AIRPORT DIAGRAM

10154

PANAMA CITY, FLORIDA
PANAMA CITY/NORTHWEST FLORIDA - PANAMA CITY INTL (ECP)

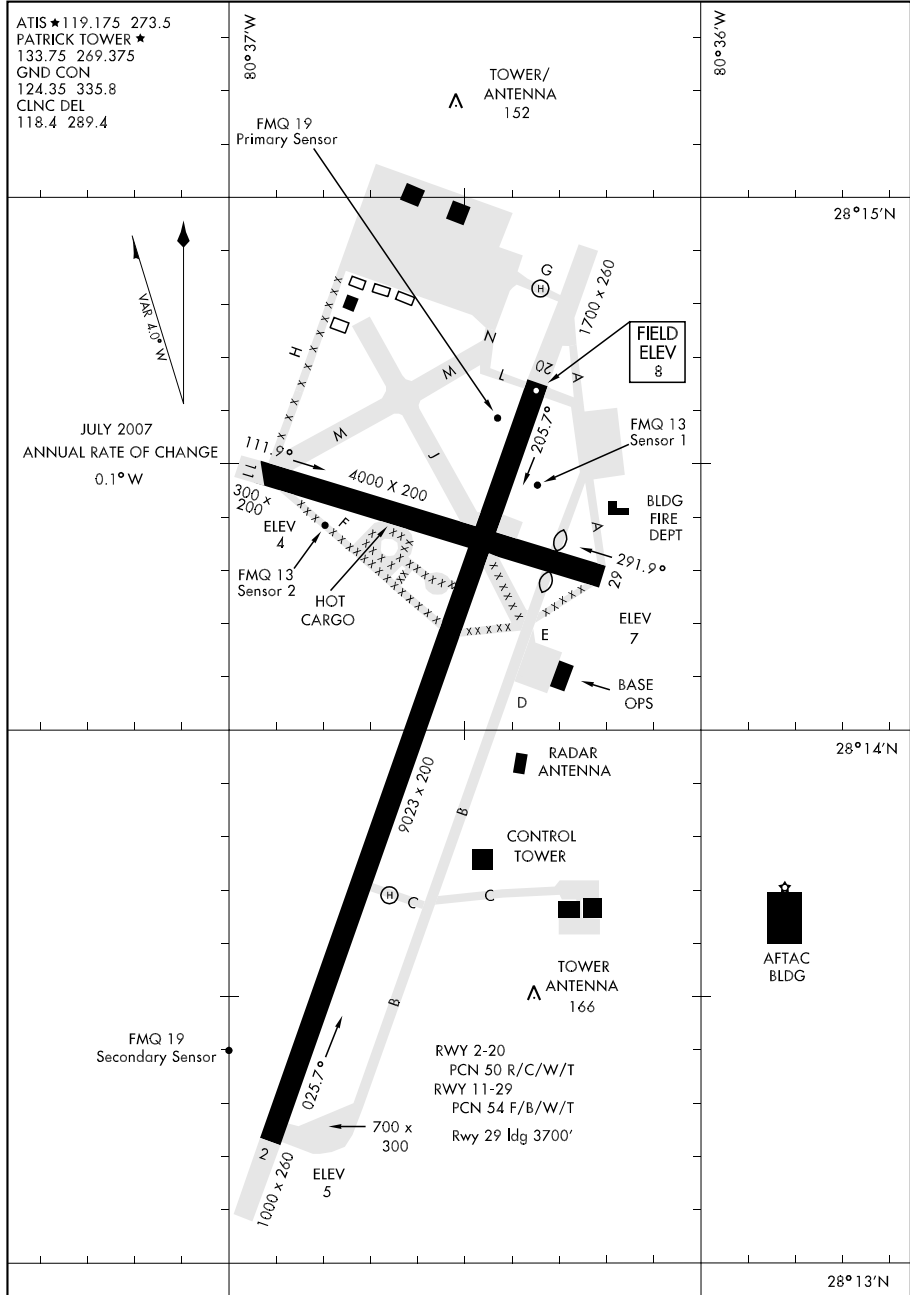
07186

AIRPORT DIAGRAM

AFD-38 [USAF]

PATRICK AFB (KCOF)

COCOA BEACH, FLORIDA



AIRPORT DIAGRAM

COCOA BEACH, FLORIDA

PATRICK AFB (KCOF)

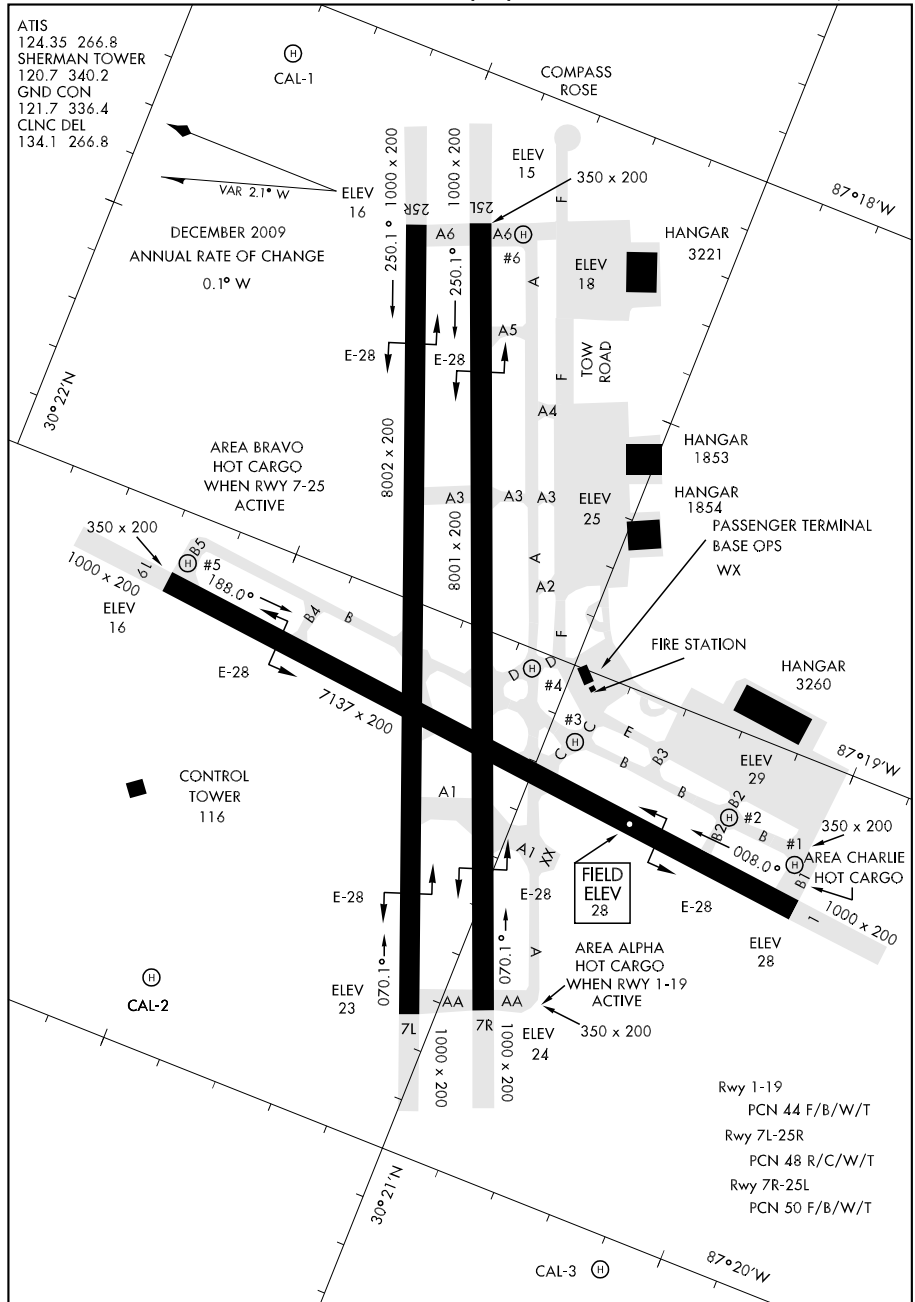
09351

AIRPORT DIAGRAM

PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)

AFD-736 [USN]

PENSACOLA, FLORIDA



AIRPORT DIAGRAM

PENSACOLA, FLORIDA

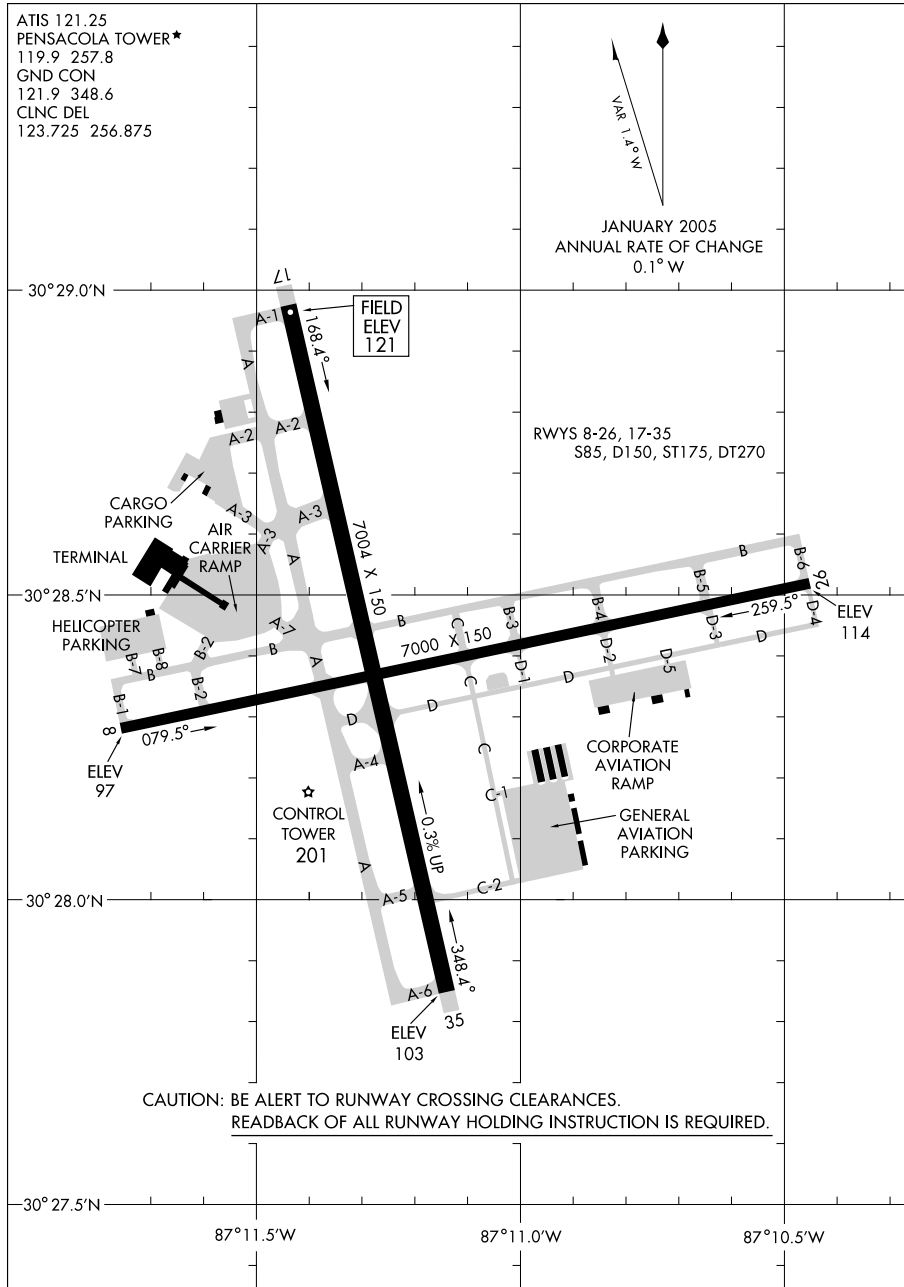
PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)

SE, 03 JUN 2010 to 29 JUL 2010

07354

AIRPORT DIAGRAM

AL-318 (FAA)

PENSACOLA RGNL (PNS)
PENSACOLA, FLORIDA

AIRPORT DIAGRAM

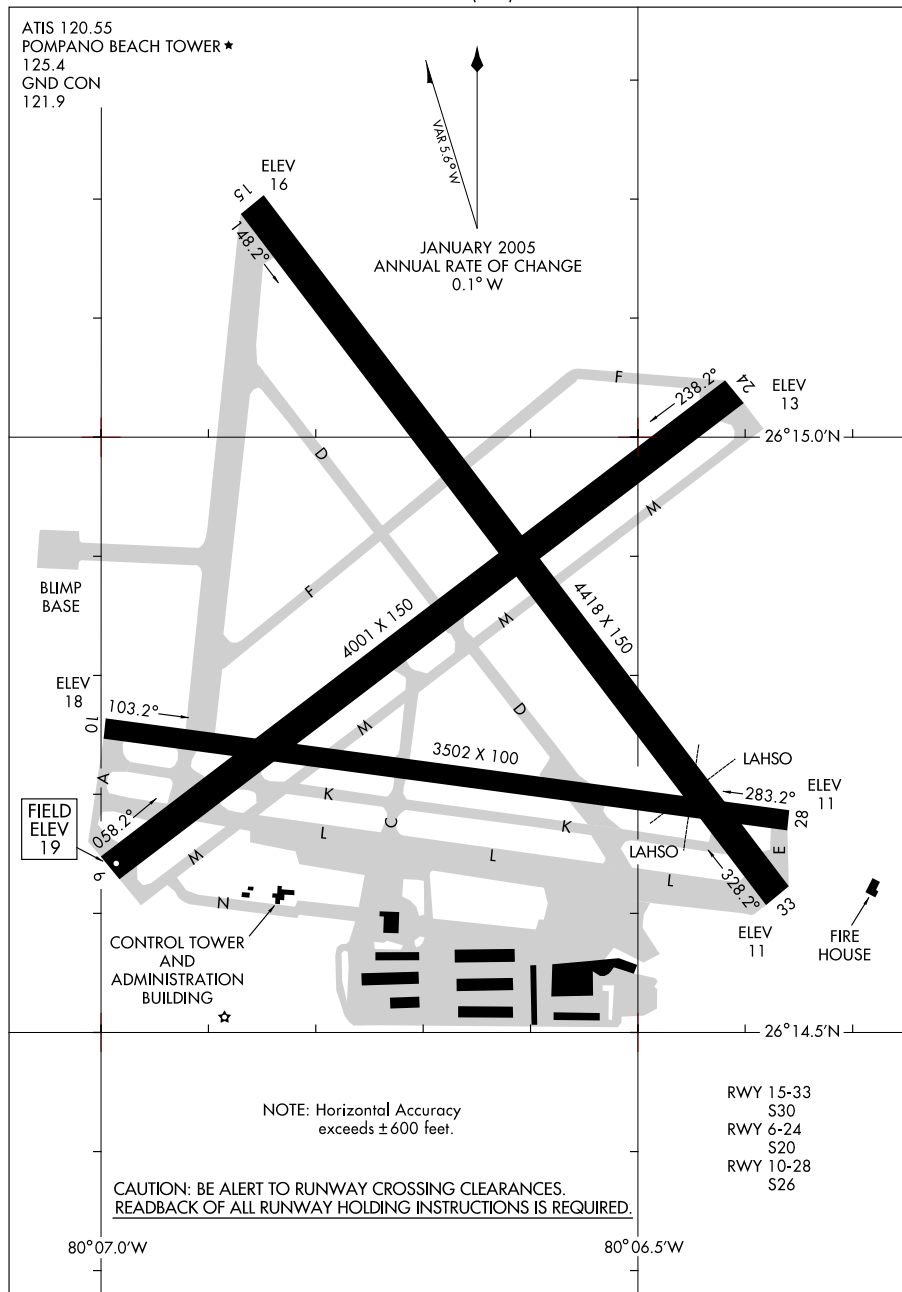
07354

PENSACOLA, FLORIDA
PENSACOLA RGNL (PNS)

06215

AIRPORT DIAGRAM

AL-5972 (FAA)

POMPAN0 BEACH AIRPARK (PMP)
POMPAN0 BEACH, FLORIDA

AIRPORT DIAGRAM

06215

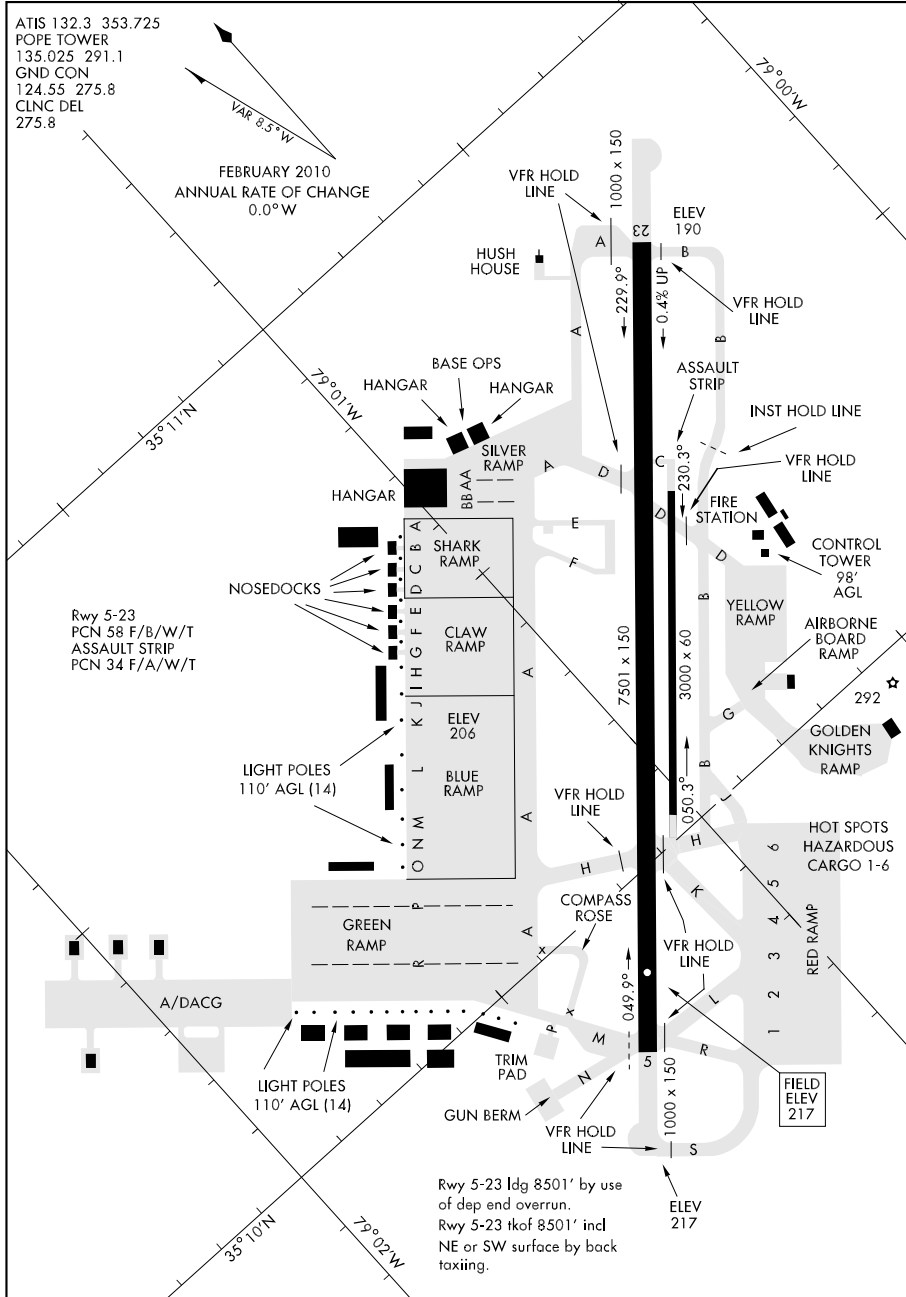
POMPAN0 BEACH, FLORIDA
POMPAN0 BEACH AIRPARK (PMP)

10042

AIRPORT DIAGRAM

AFD-147 [USAF]

POPE AFB (KPOB)
FAYETTEVILLE, NORTH CAROLINA



AIRPORT DIAGRAM

FAYETTEVILLE, NORTH CAROLINA
POPE AFB (KPOB)

SE, 03 JUN 2010 to 29 JUL 2010

09239

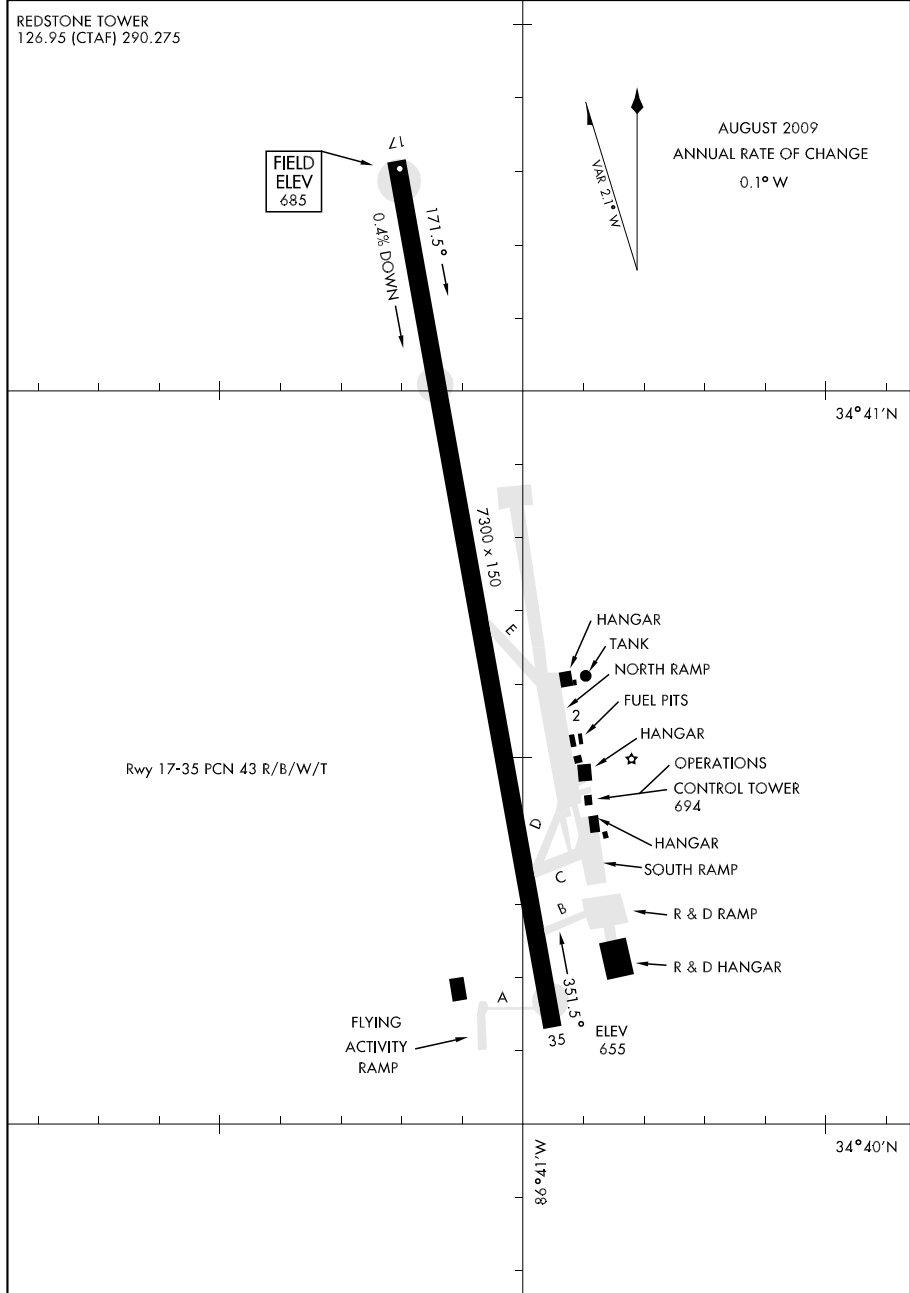
AIRPORT DIAGRAM

AFD-703 [USA]

REDSTONE AAF (KHUA)

REDSTONE ARSENAL, ALABAMA

REDSTONE TOWER
126.95 (CTAF) 290.275



AIRPORT DIAGRAM

REDSTONE ARSENAL, ALABAMA

REDSTONE AAF (KHUA)

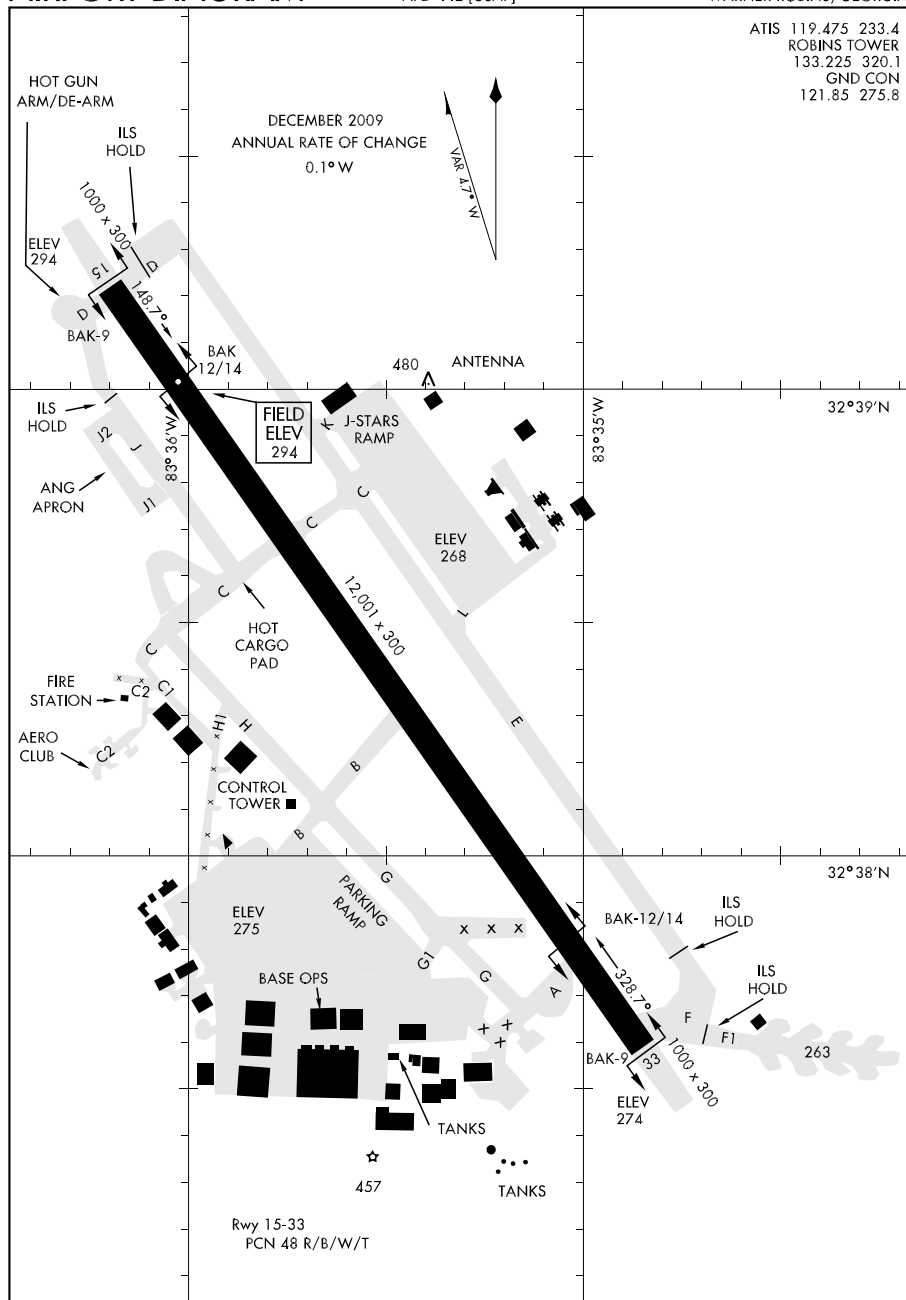
09351

AIRPORT DIAGRAM

AFD-442 [USAF]

ROBINS AFB (KWRB)

WARNER ROBINS, GEORGIA



AIRPORT DIAGRAM

WARNER ROBINS, GEORGIA

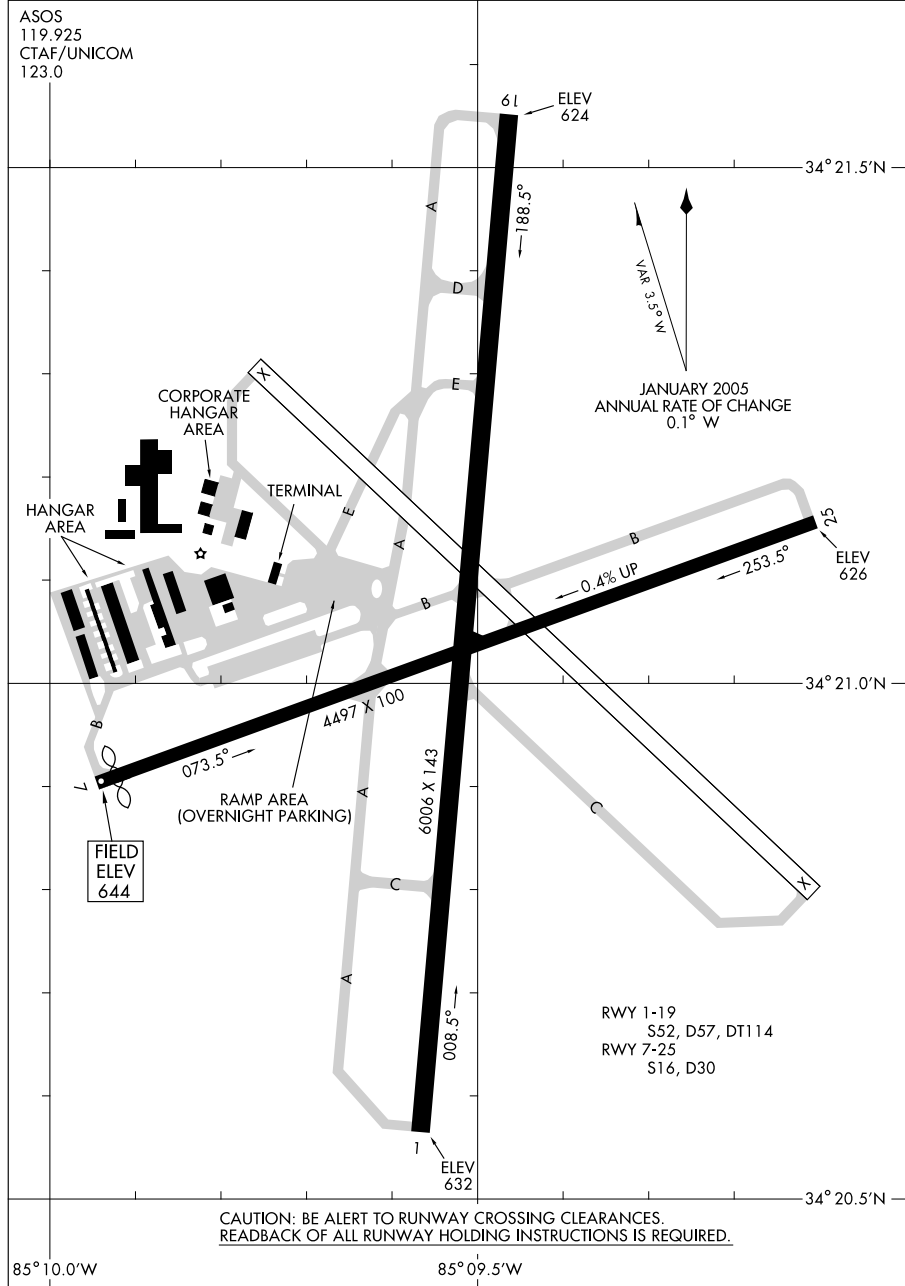
ROBINS AFB (KWRB)

09071

AIRPORT DIAGRAM

AL-855 (FAA)

ROME/ RICHARD B. RUSSELL (RMG)
ROME, GEORGIA



AIRPORT DIAGRAM

09071

ROME, GEORGIA
ROME/ RICHARD B. RUSSELL (RMG)

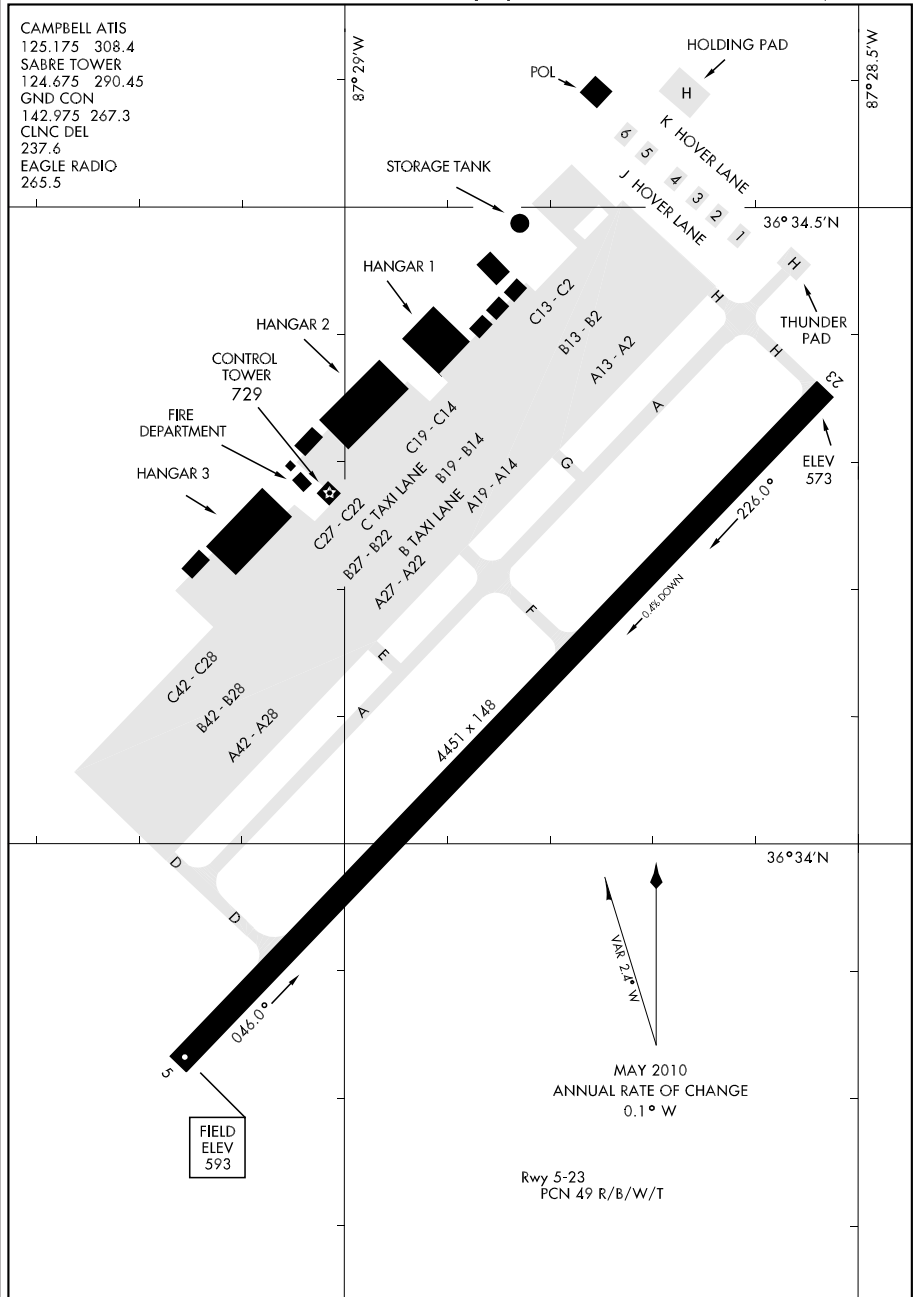
Orig 10126

AIRPORT DIAGRAM

AFD-6373 [USA]

SABRE AHP (FORT CAMPBELL) (KEOD)

CLARKSVILLE, TENNESSEE



AIRPORT DIAGRAM

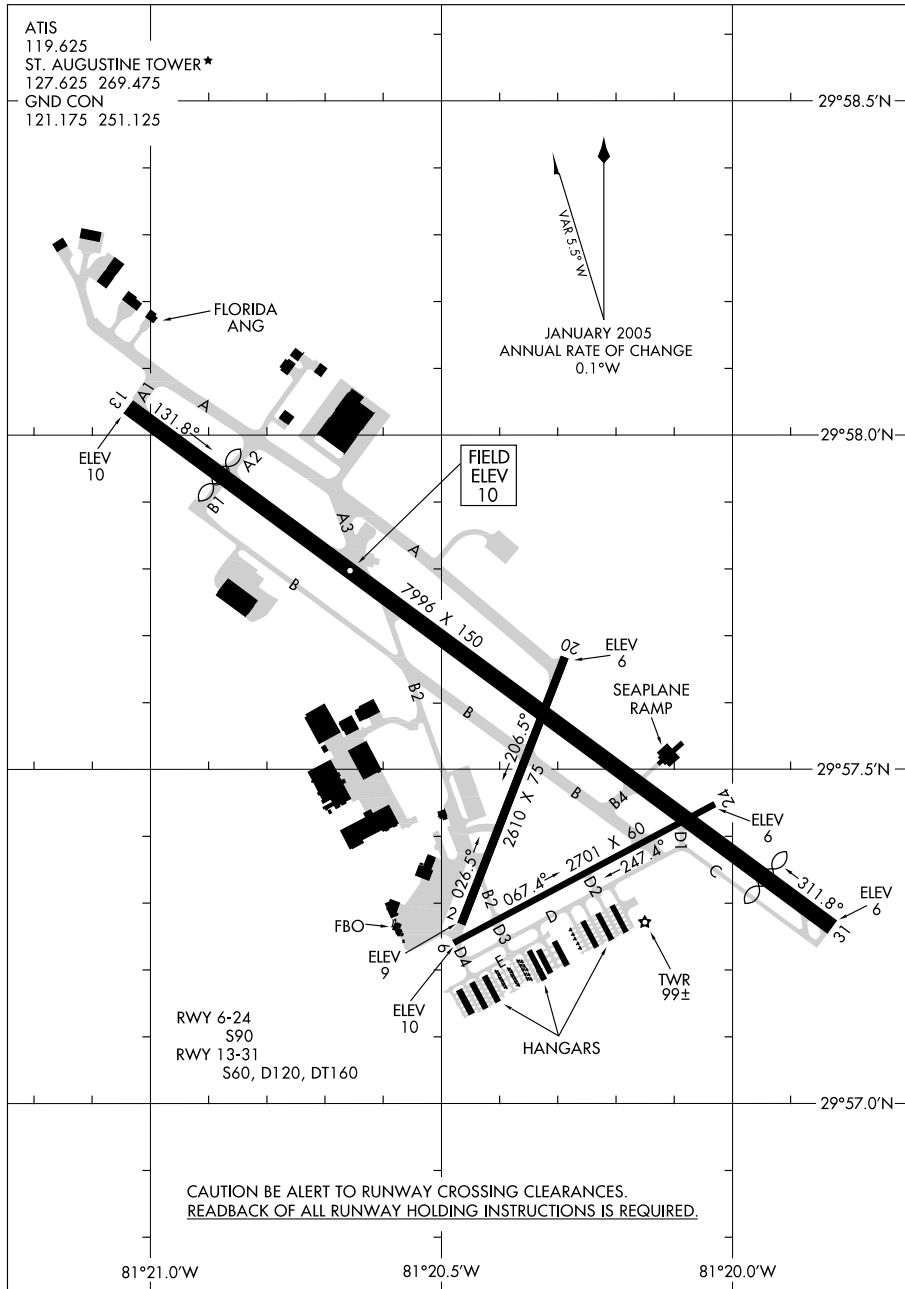
CLARKSVILLE, TENNESSEE

SABRE AHP (FORT CAMPBELL) (KEOD)

10042

AIRPORT DIAGRAM

AL-692 (FAA)

ST. AUGUSTINE (SGJ)
ST. AUGUSTINE, FLORIDA

AIRPORT DIAGRAM

10042

ST. AUGUSTINE, FLORIDA
ST. AUGUSTINE (SGJ)

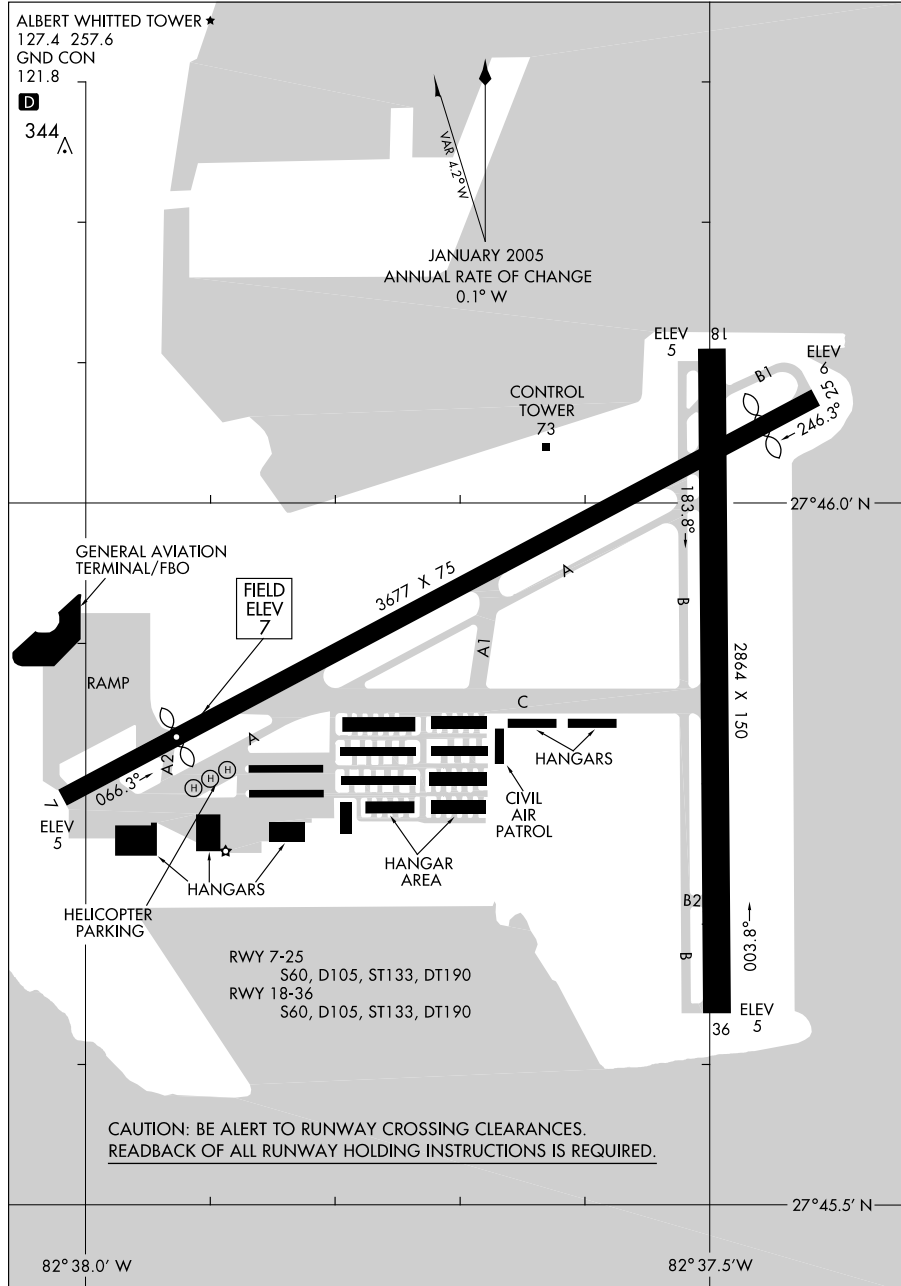
09015

AIRPORT DIAGRAM

AL-613 (FAA)

ST. PETERSBURG/ALBERT WHITTED (SPG)

ST. PETERSBURG, FLORIDA



AIRPORT DIAGRAM

ST. PETERSBURG, FLORIDA

ST. PETERSBURG/ALBERT WHITTED (SPG)

09015

ST. PETERSBURG-CLEARWATER INTL (PIE)
ST. PETERSBURG-CLEARWATER, FLORIDA



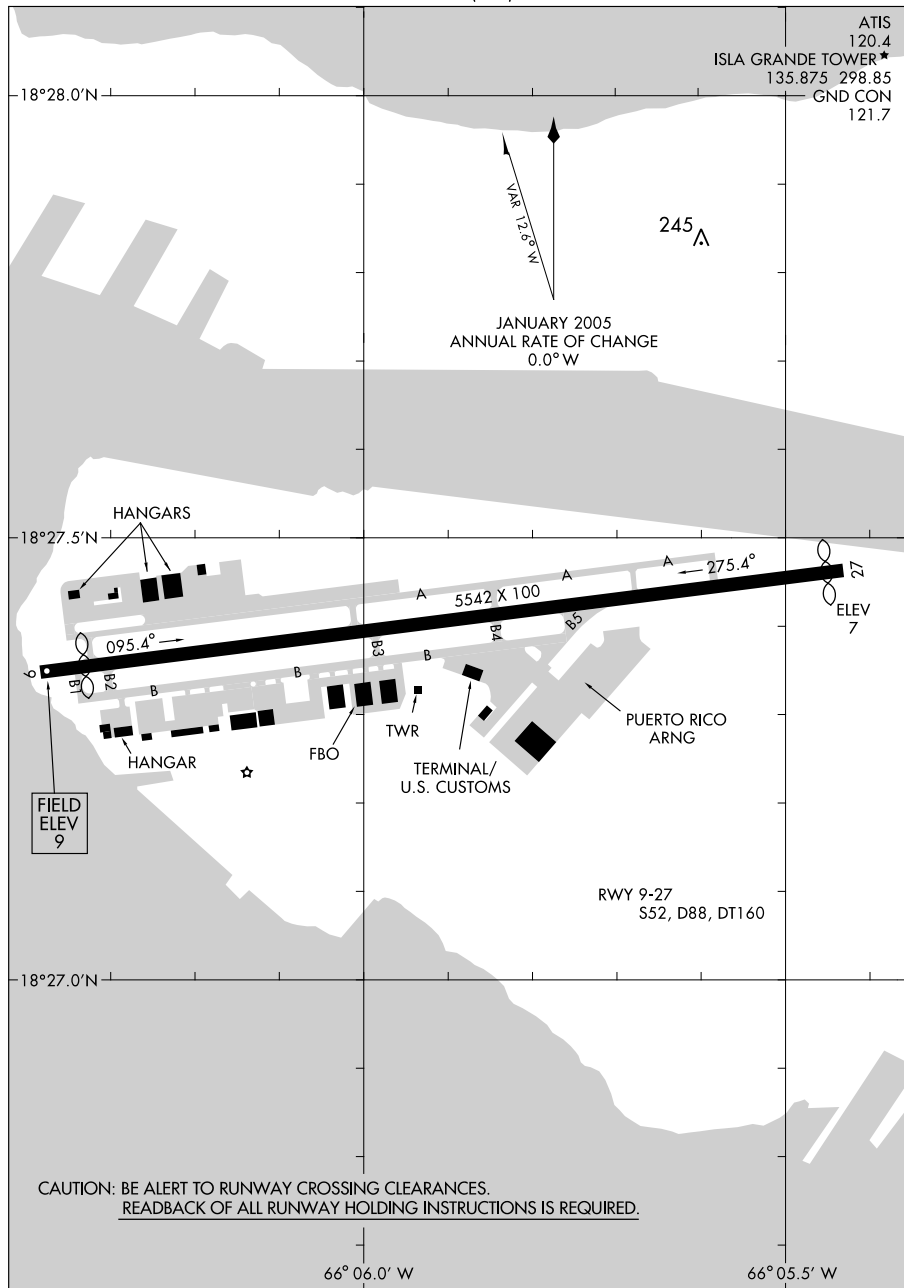
10154

AIRPORT DIAGRAM

SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)

AL-1019 (FAA)

SAN JUAN, PUERTO RICO



AIRPORT DIAGRAM

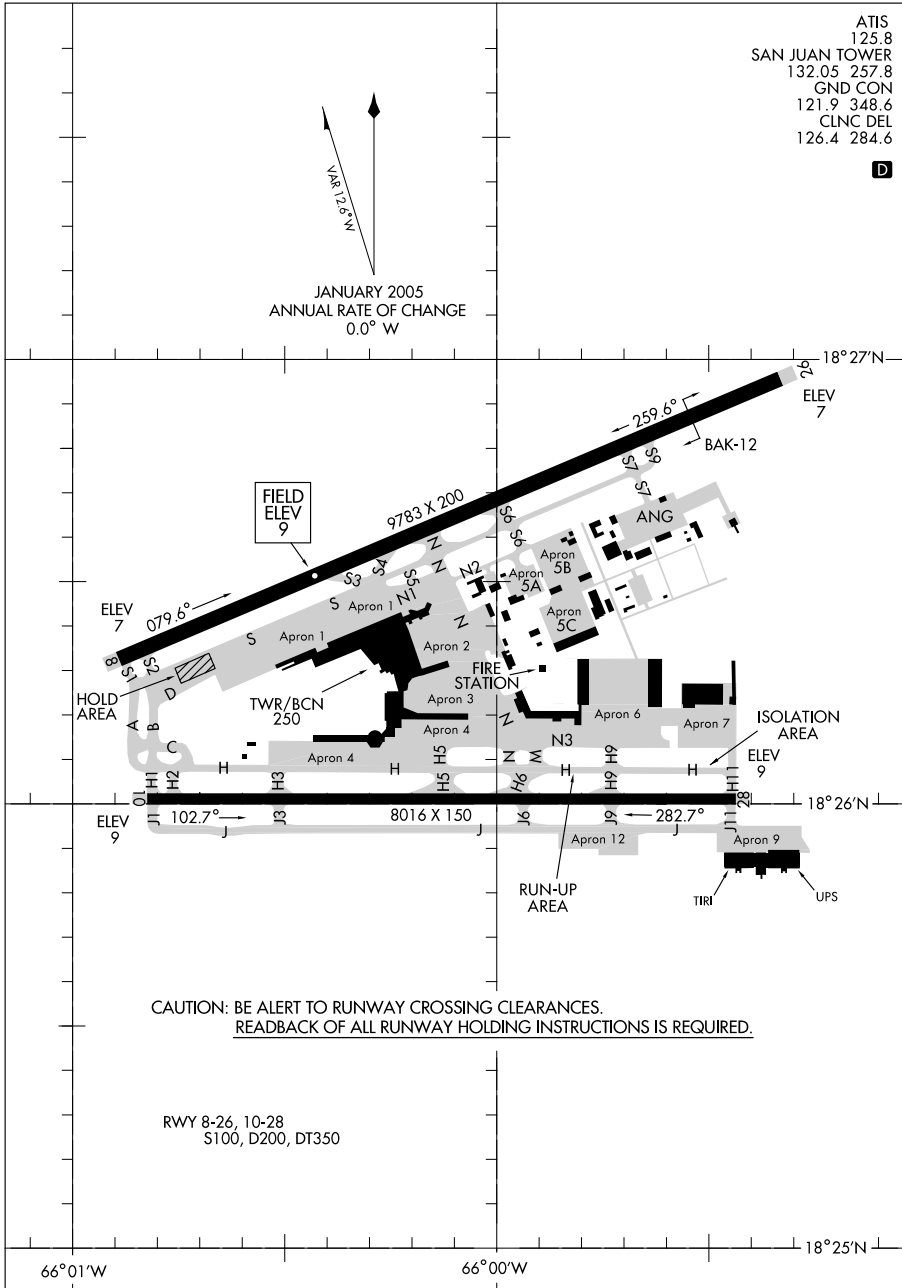
10154

SAN JUAN, PUERTO RICO
SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)

10098

AIRPORT DIAGRAM

SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)
AL-784 (FAA)
SAN JUAN, PUERTO RICO



AIRPORT DIAGRAM

10098

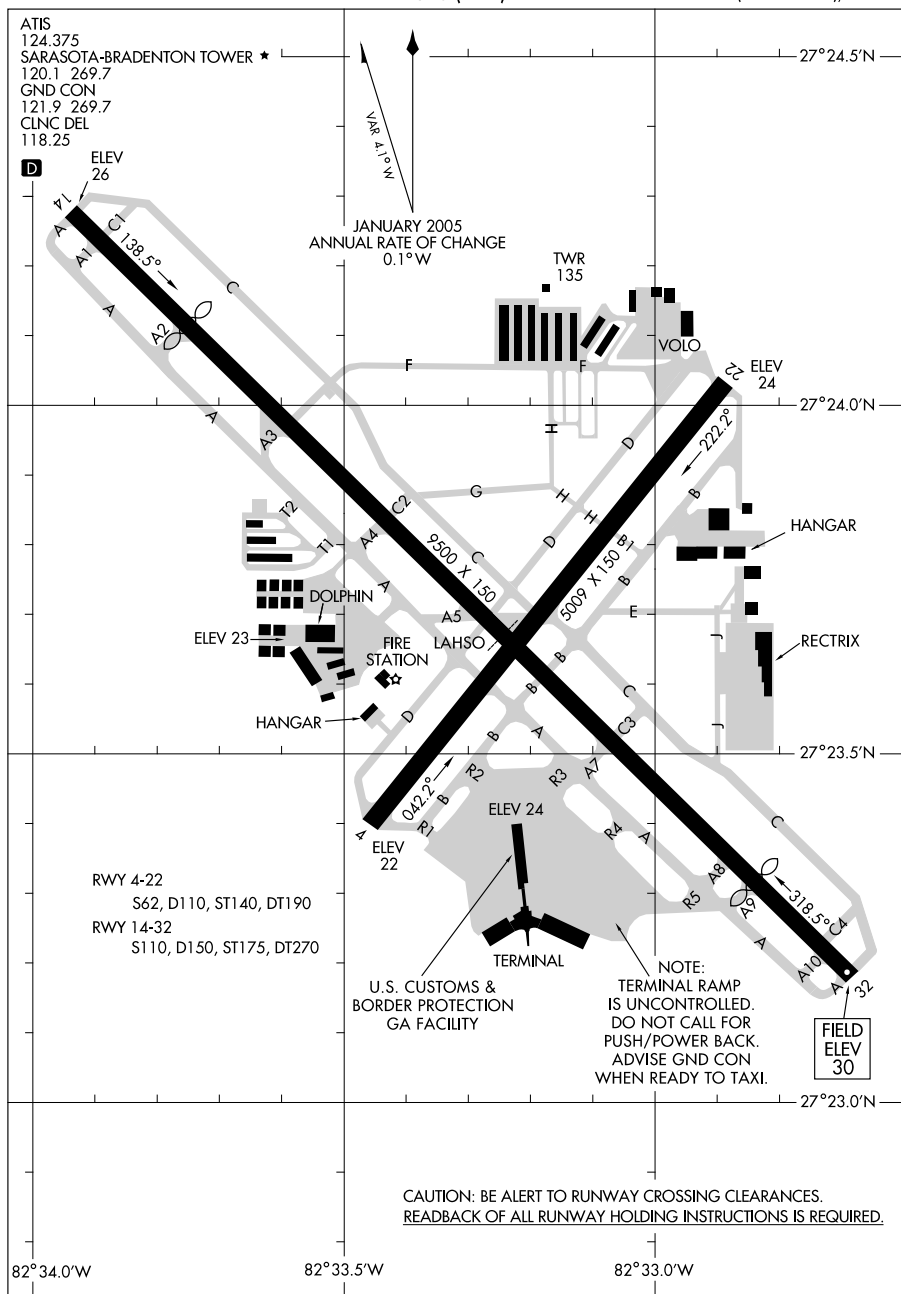
SAN JUAN, PUERTO RICO
SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)

10098

AIRPORT DIAGRAM

SARASOTA/BRADENTON INTL(SRQ)

SARASOTA (BRADENTON), FLORIDA



AIRPORT DIAGRAM

10098

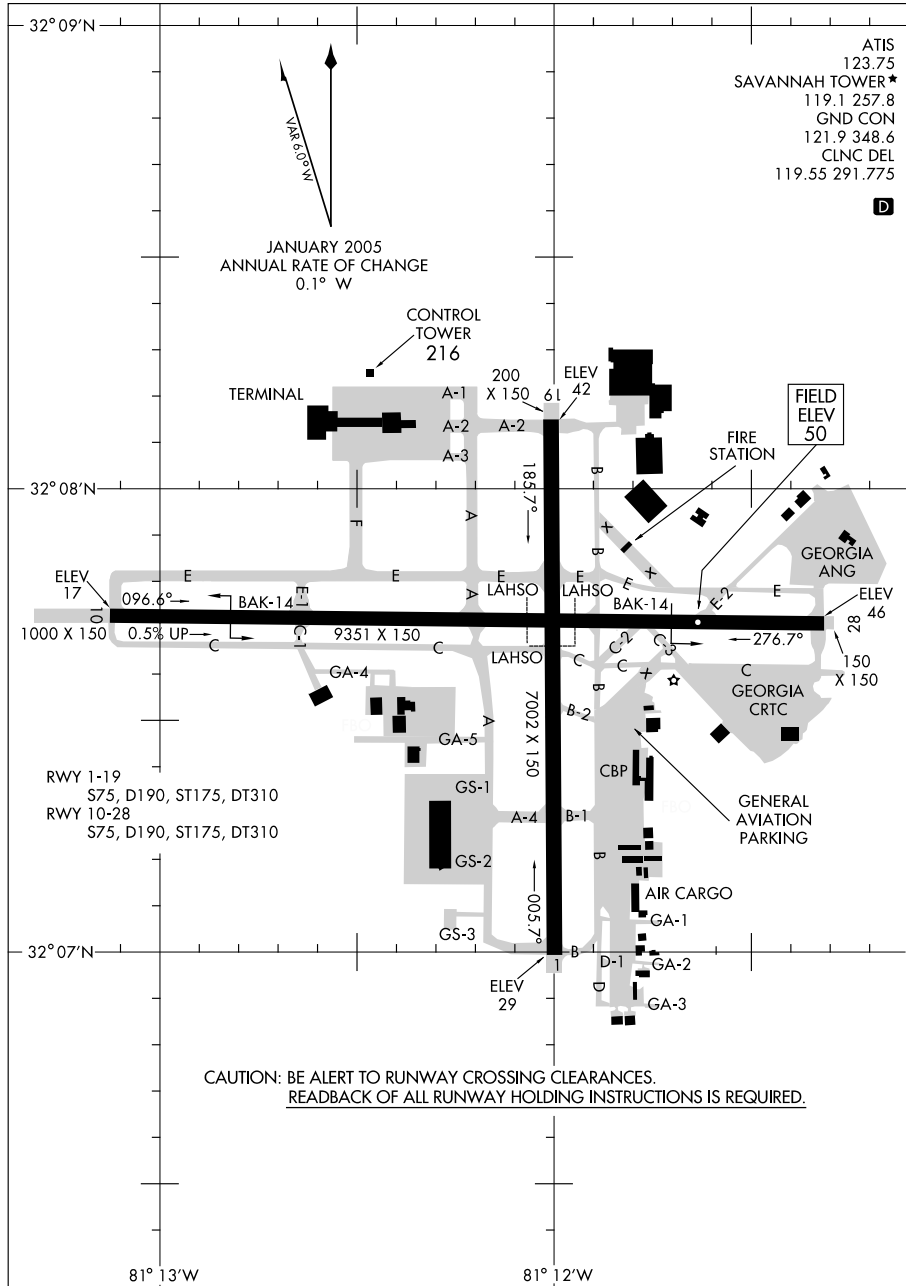
SARASOTA (BRADENTON), FLORIDA
SARASOTA/BRADENTON INTL(SRQ)

09183

AIRPORT DIAGRAM

SAVANNAH/HILTON HEAD INTL (SAV)
SAVANNAH, GEORGIA

AL-380 (FAA)



AIRPORT DIAGRAM

09183

SAVANNAH, GEORGIA
SAVANNAH/HILTON HEAD INTL (SAV)

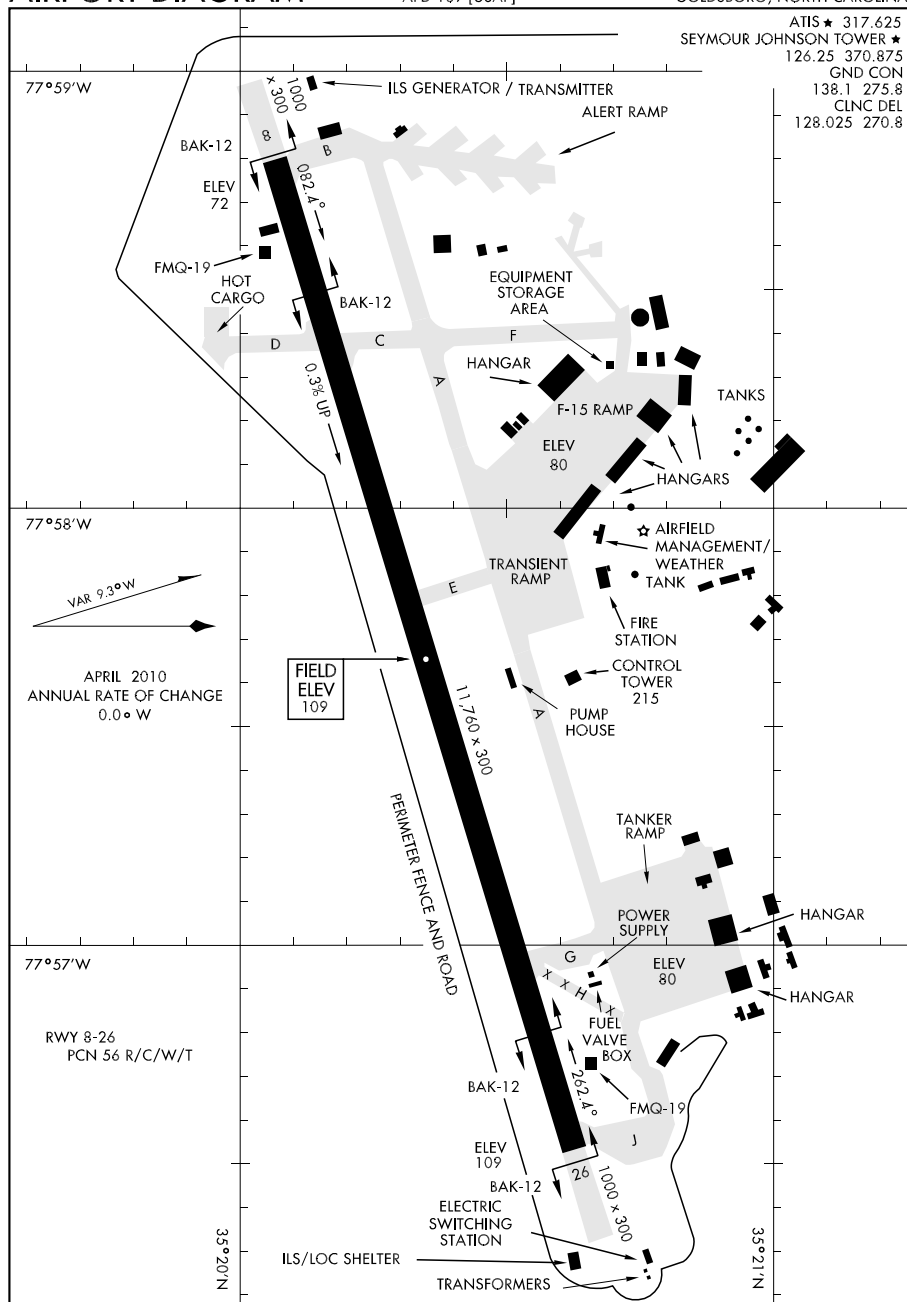
10098

AIRPORT DIAGRAM

AFD-169 [USAF]

SEYMOUR JOHNSON AFB (KGSB)

GOLDSBORO, NORTH CAROLINA



AIRPORT DIAGRAM

GOLDSBORO, NORTH CAROLINA

SEYMOUR JOHNSON AFB (KGSB)

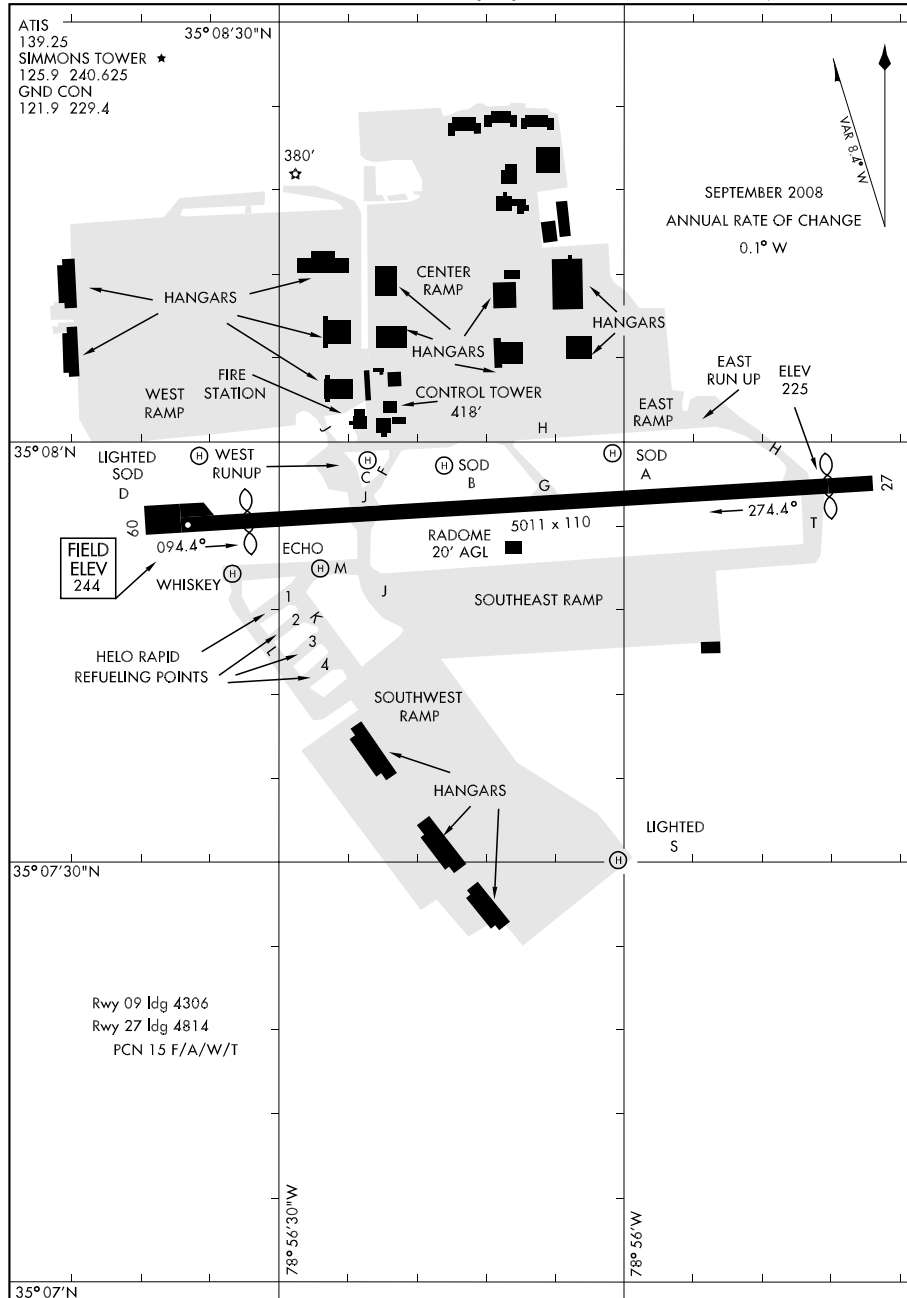
08269

AIRPORT DIAGRAM

AFD-5069 [USA]

SIMMONS AAF (KFBG)

FORT BRAGG, NORTH CAROLINA



AIRPORT DIAGRAM

FORT BRAGG, NORTH CAROLINA

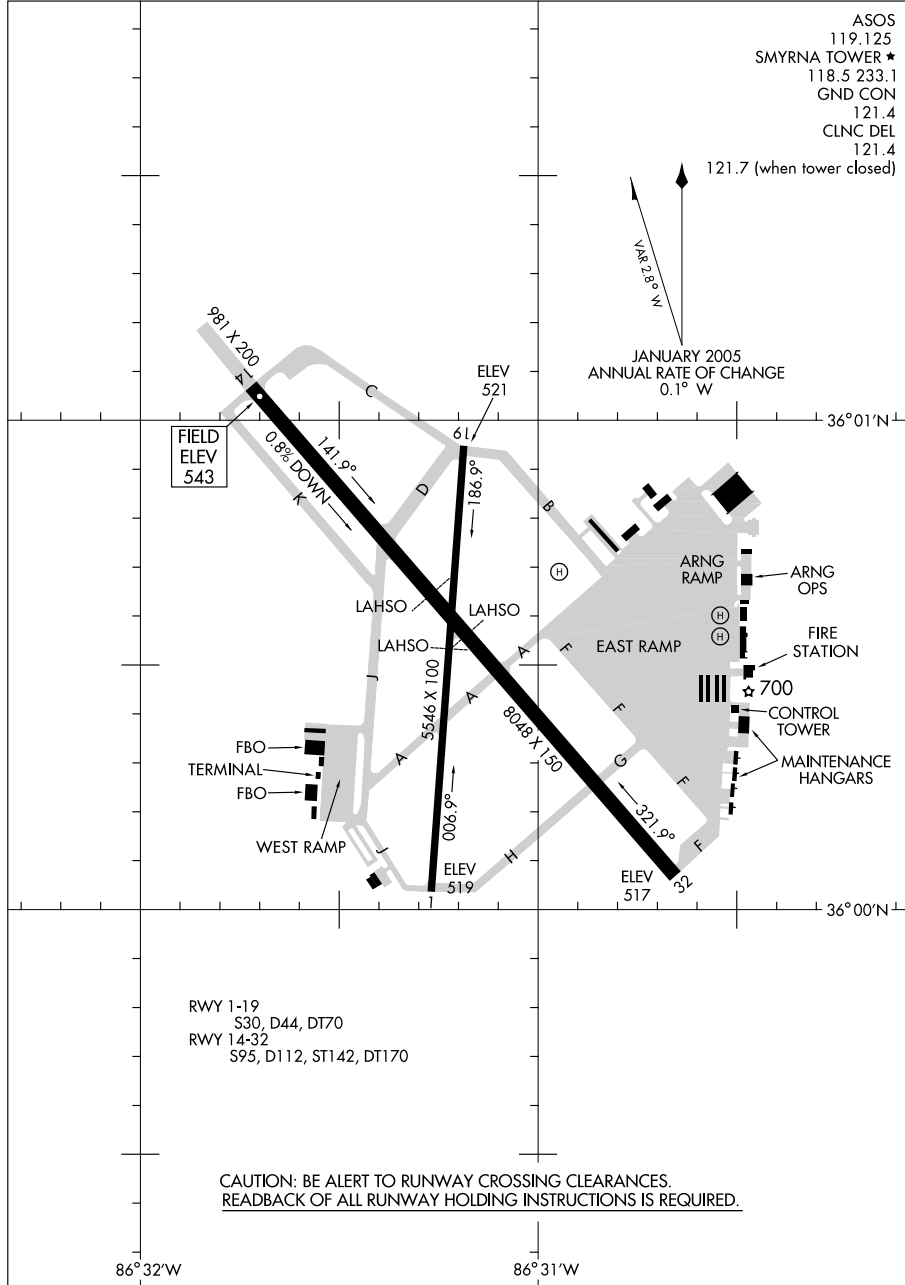
SIMMONS AAF (KFBG)

09351

AIRPORT DIAGRAM

AL-895 (FAA)

SMYRNA (MQY)
SMYRNA, TENNESSEE



AIRPORT DIAGRAM

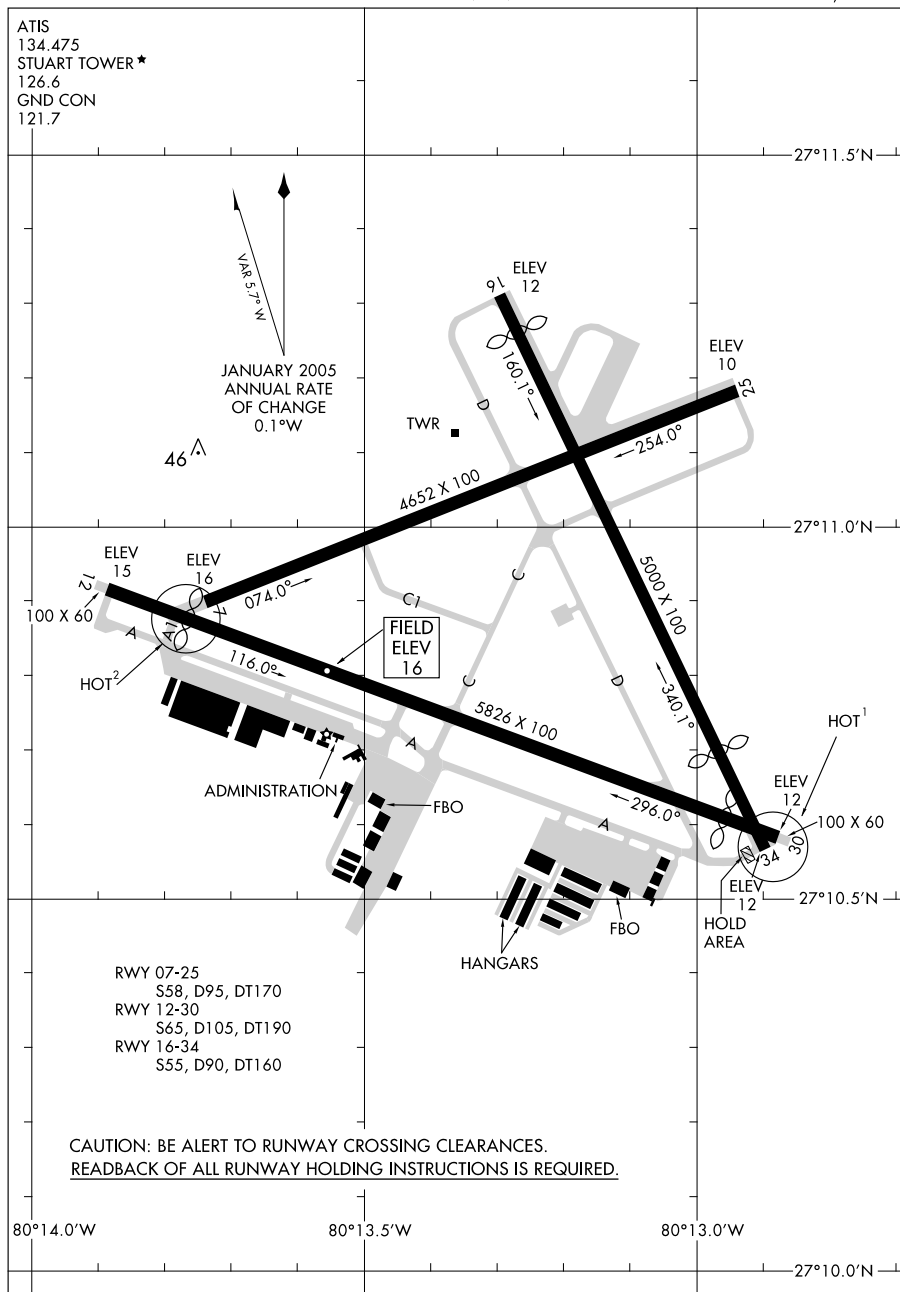
09351

SMYRNA, TENNESSEE
SMYRNA (MQY)

09239

AIRPORT DIAGRAM

AL-9217 (FAA)

STUART/WITHAM FIELD (SUA)
STUART, FLORIDA

AIRPORT DIAGRAM

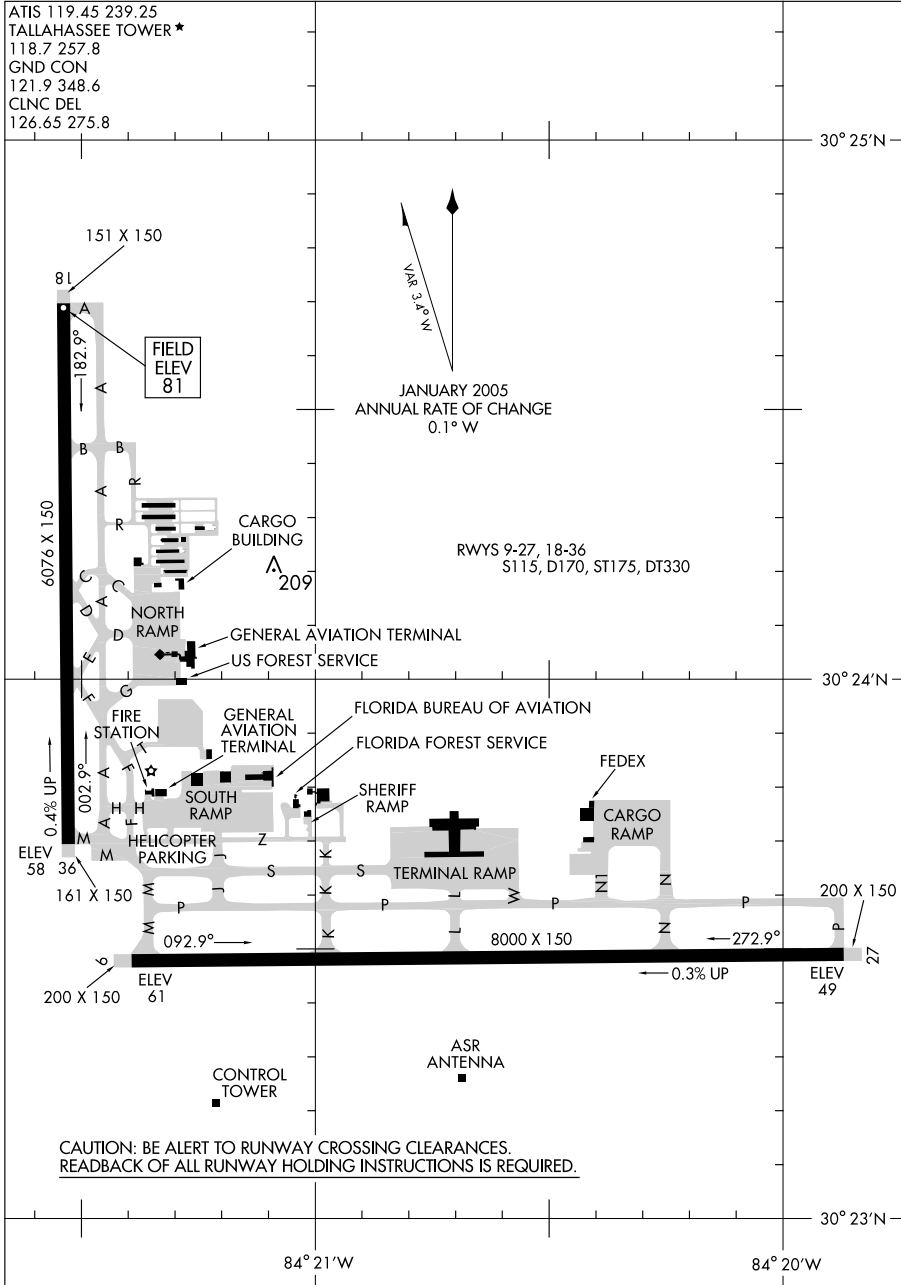
09239

STUART, FLORIDA
STUART/WITHAM FIELD (SUA)

07354

AIRPORT DIAGRAM

AL-5048 (FAA)

TALLAHASSEE RGNL (TLH)
TALLAHASSEE, FLORIDA

AIRPORT DIAGRAM

07354

TALLAHASSEE, FLORIDA
TALLAHASSEE RGNL (TLH)

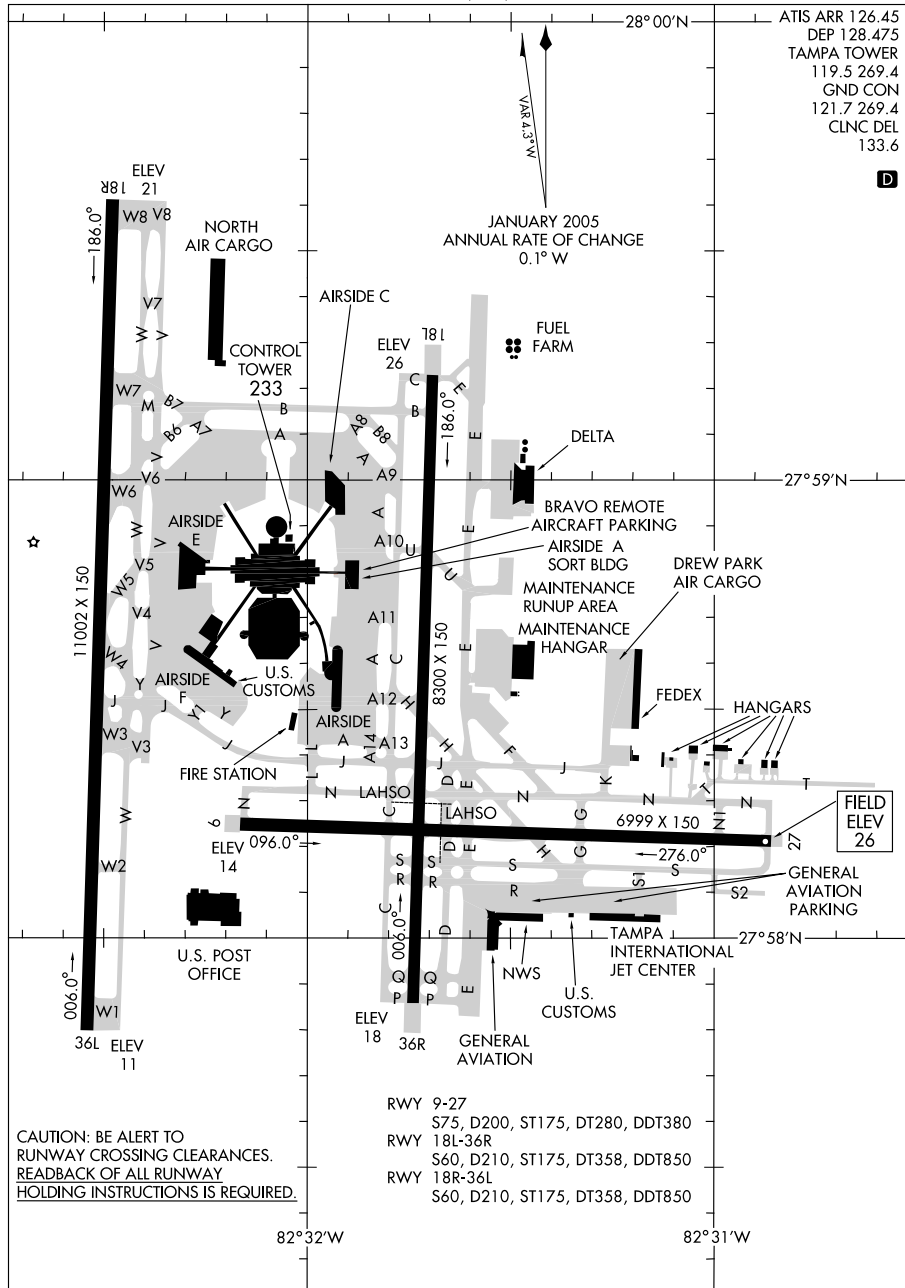
09183

AIRPORT DIAGRAM

AL-416 (FAA)

TAMPA INTL (TPA)

TAMPA, FLORIDA



AIRPORT DIAGRAM

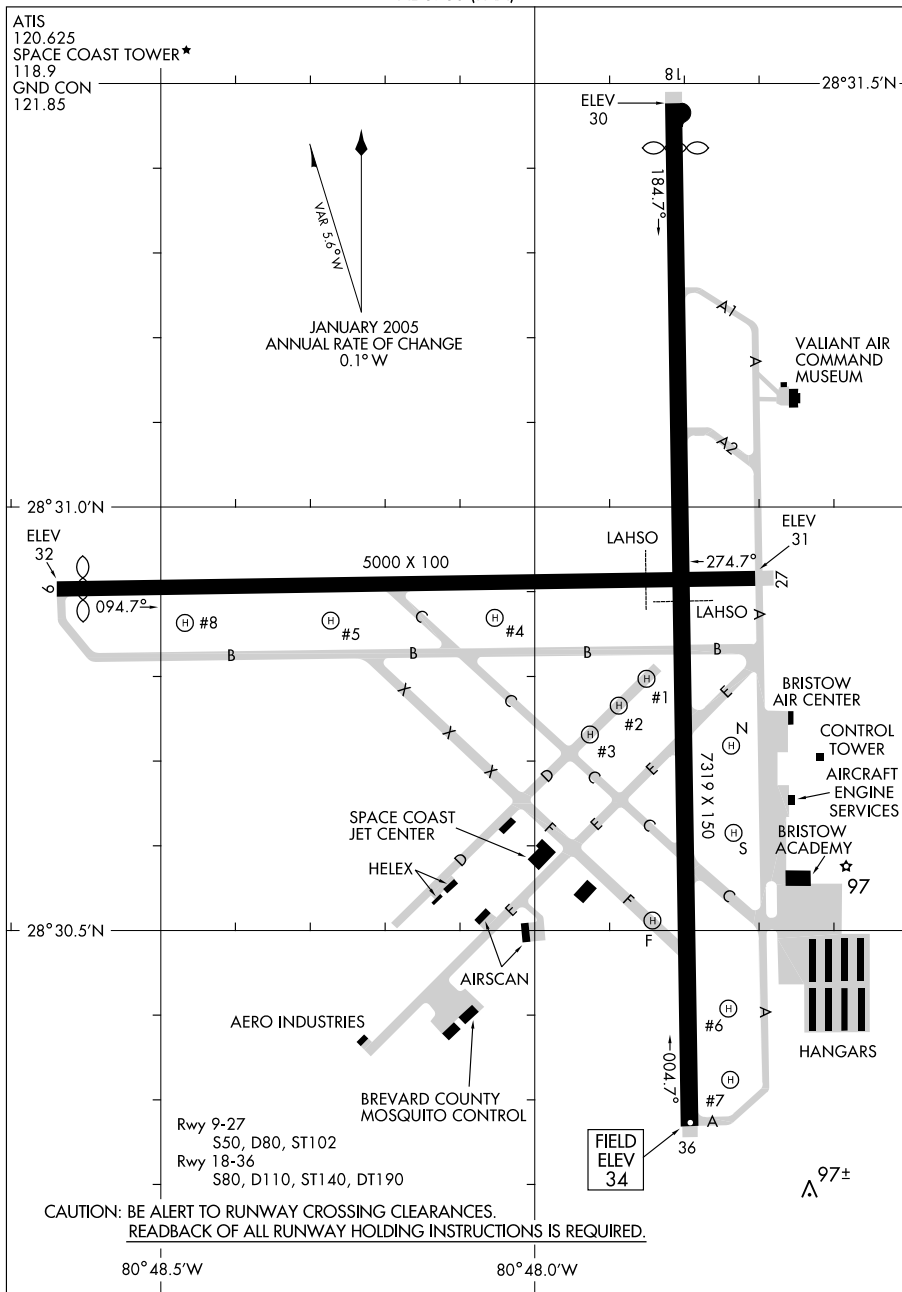
09183

TAMPA, FLORIDA
TAMPA INTL (TPA)

09295

AIRPORT DIAGRAM

AL-5760 (FAA)

TITUSVILLE/SPACE COAST RGNL (TIX)
TITUSVILLE, FLORIDA

AIRPORT DIAGRAM

09295

TITUSVILLE, FLORIDA
TITUSVILLE/ SPACE COAST RGNL (TIX)

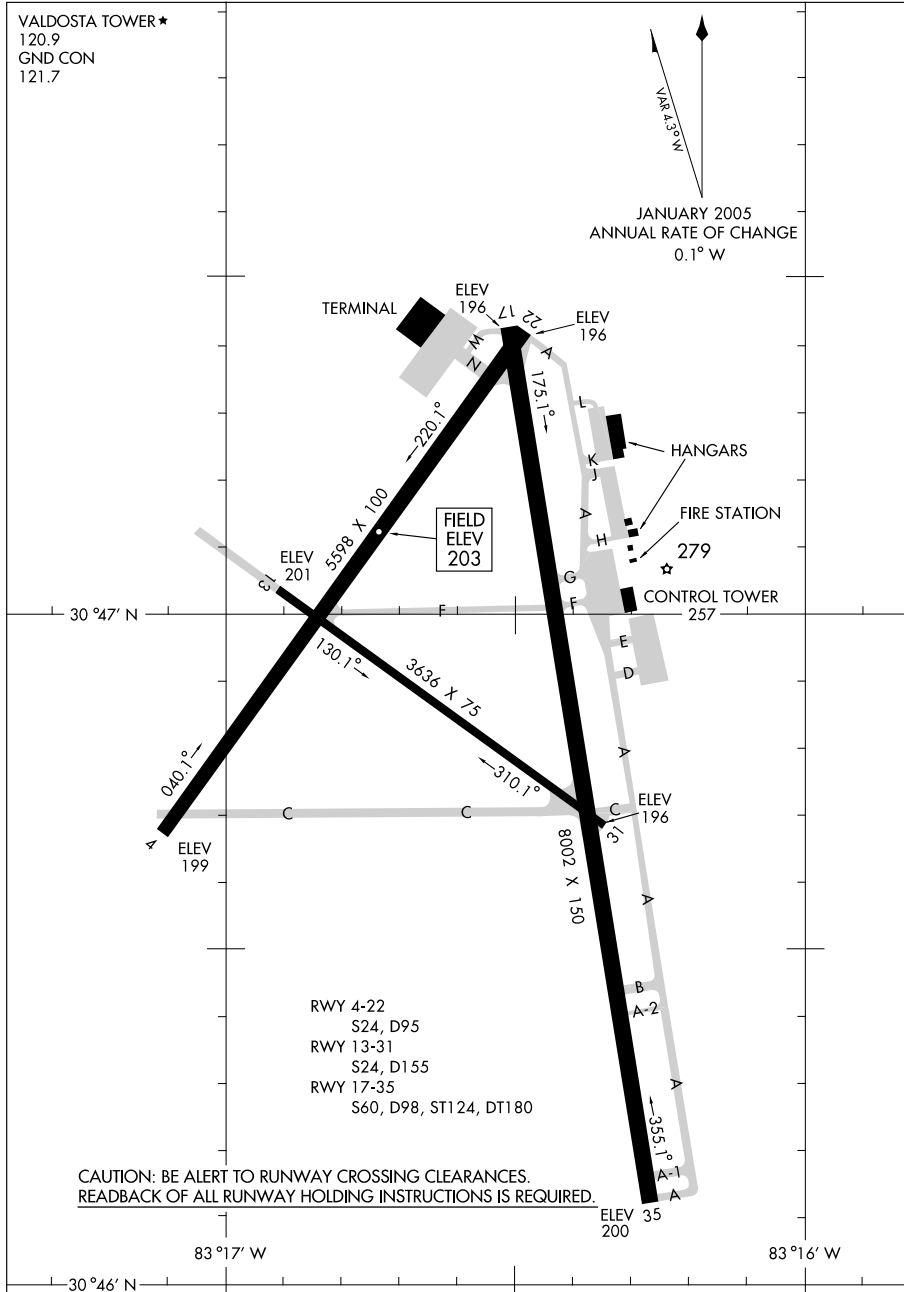
09127

AIRPORT DIAGRAM

AL-892 (FAA)

VALDOSTA RGNL (VLD)

VALDOSTA, GEORGIA



AIRPORT DIAGRAM

09127

VALDOSTA, GEORGIA
VALDOSTA RGNL (VLD)

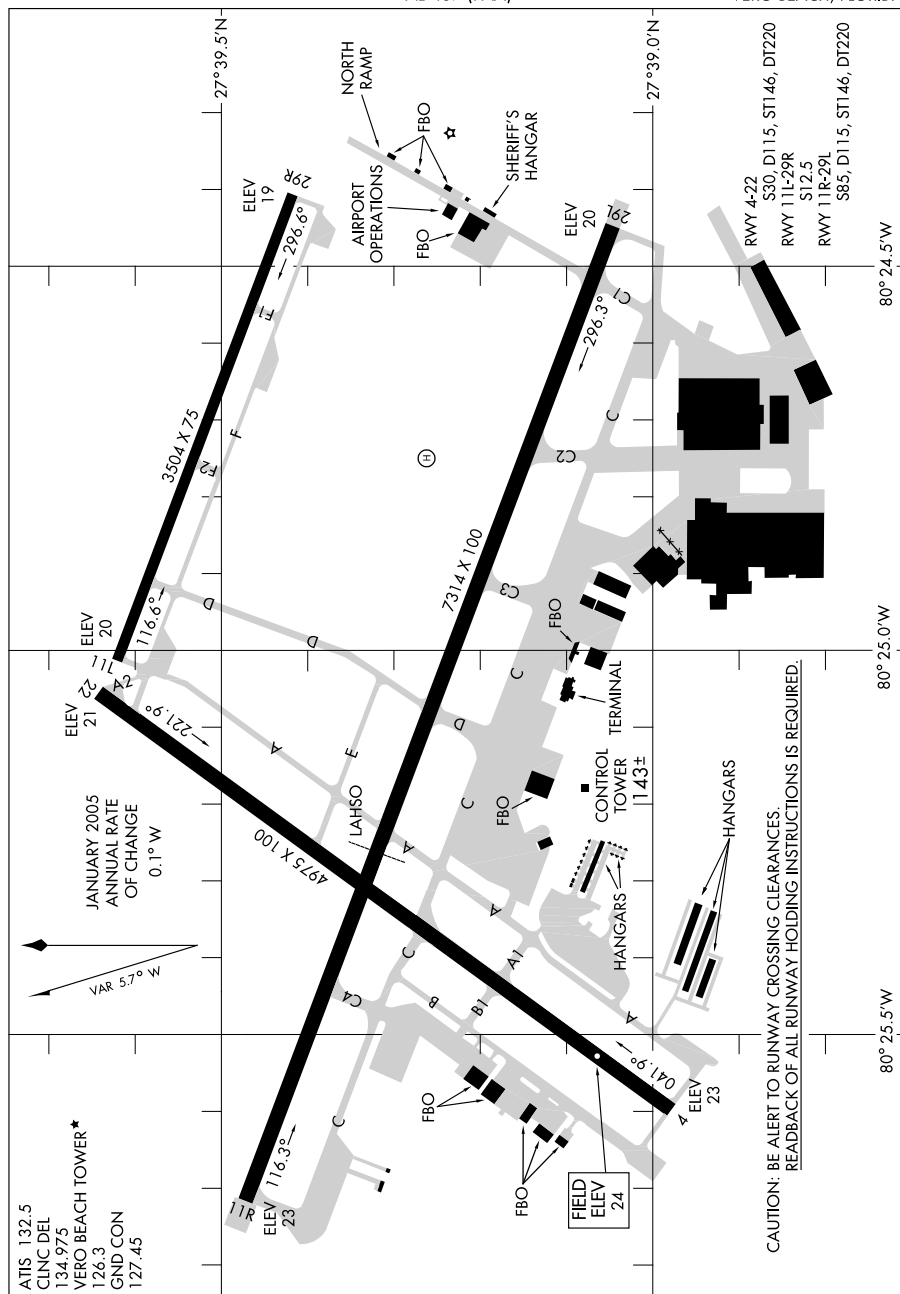
08325

AIRPORT DIAGRAM

AL-437 (FAA)

VERO BEACH MUNI (VRB)

VERO BEACH, FLORIDA



AIRPORT DIAGRAM

08325

VERO BEACH, FLORIDA
VERO BEACH MUNI (VRB)

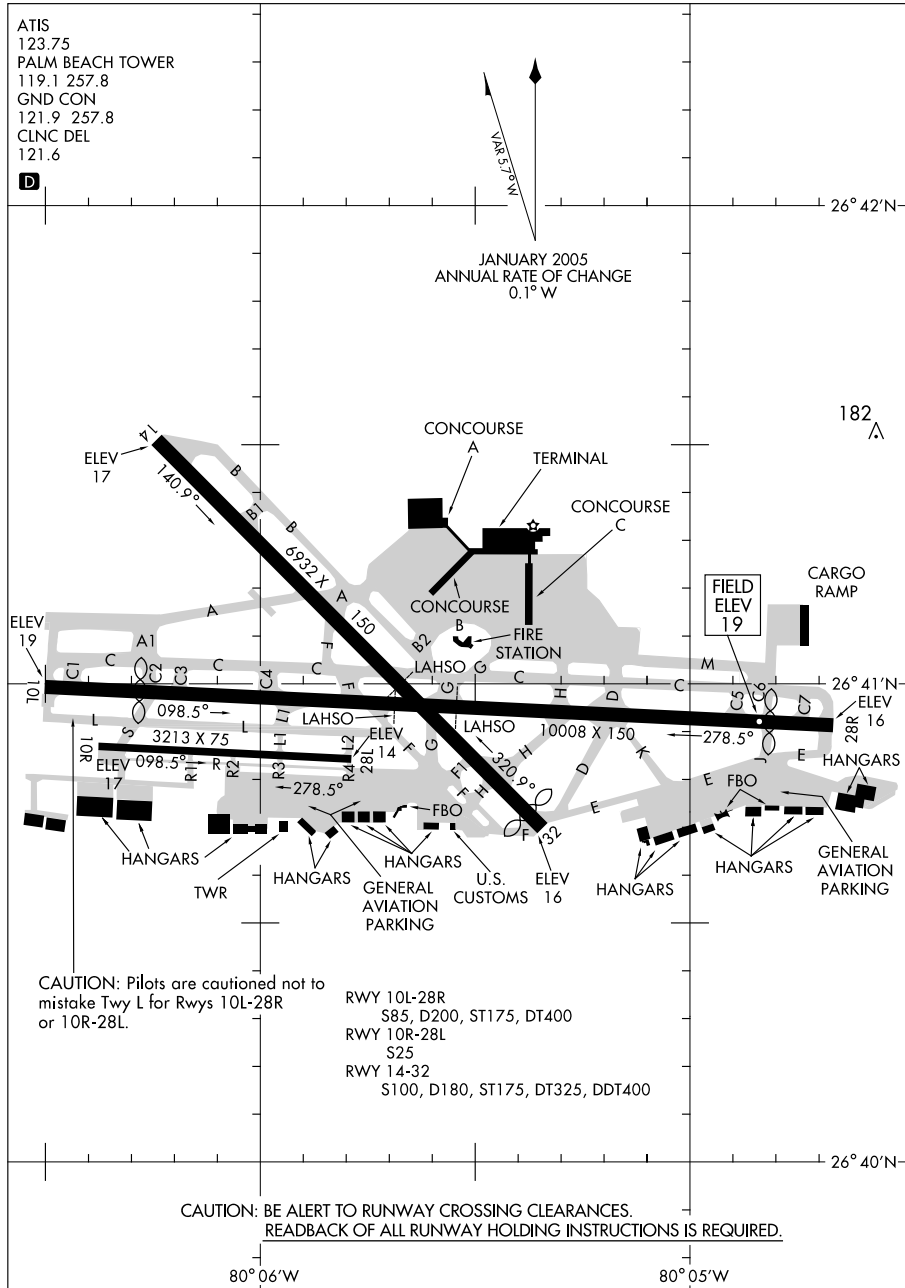
10098

AIRPORT DIAGRAM

WEST PALM BEACH/PALM BEACH INTL (PBI)

AL-449 (FAA)

WEST PALM BEACH, FLORIDA



AIRPORT DIAGRAM

WEST PALM BEACH, FLORIDA
WEST PALM BEACH/PALM BEACH INTL (PBI)

10098

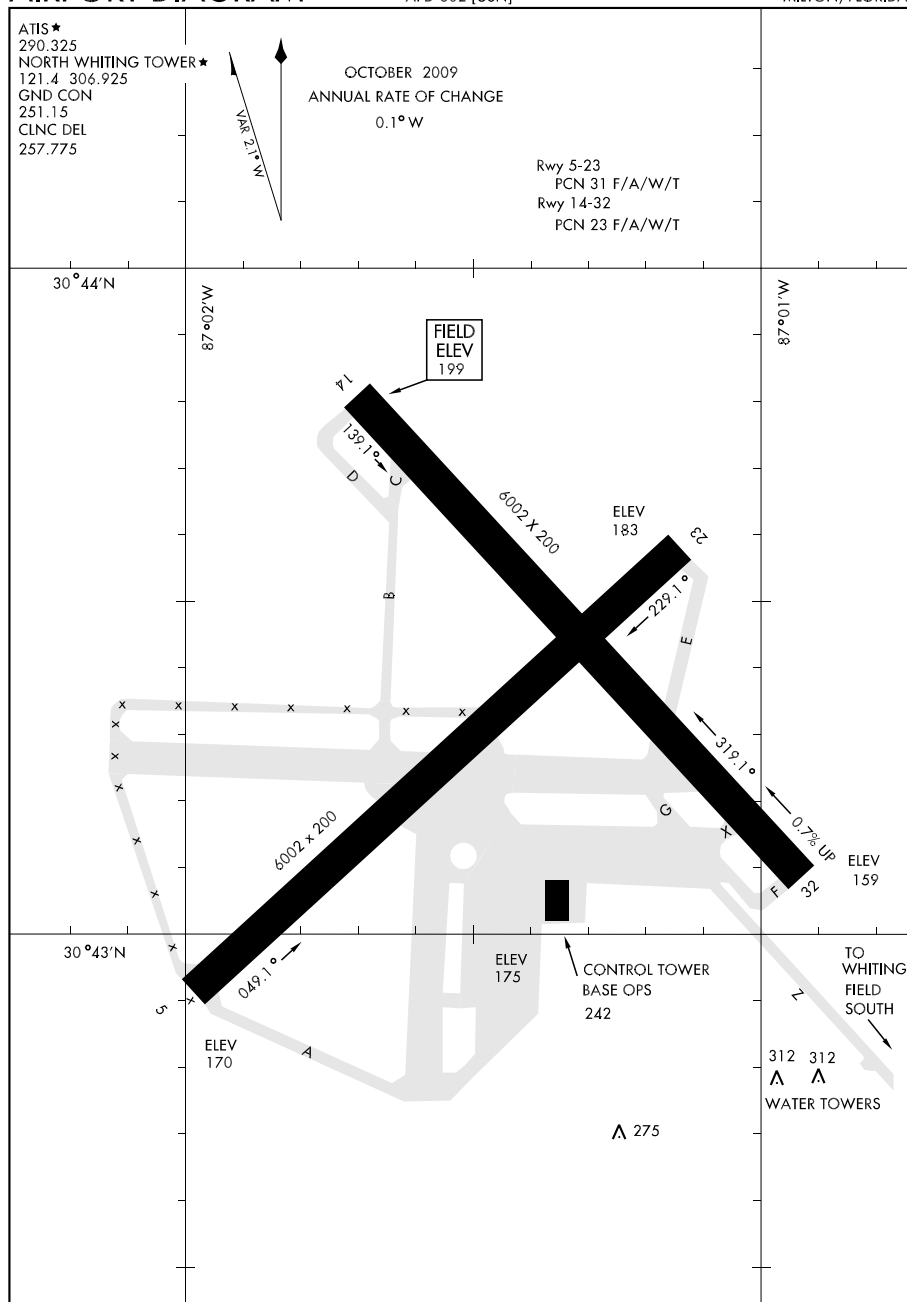
09295

AIRPORT DIAGRAM

AFD-602 [USN]

WHITING FLD NAS (NORTH) (KNSE)

MILTON, FLORIDA



AIRPORT DIAGRAM

MILTON, FLORIDA

WHITING FLD NAS (NORTH) (KNSE)

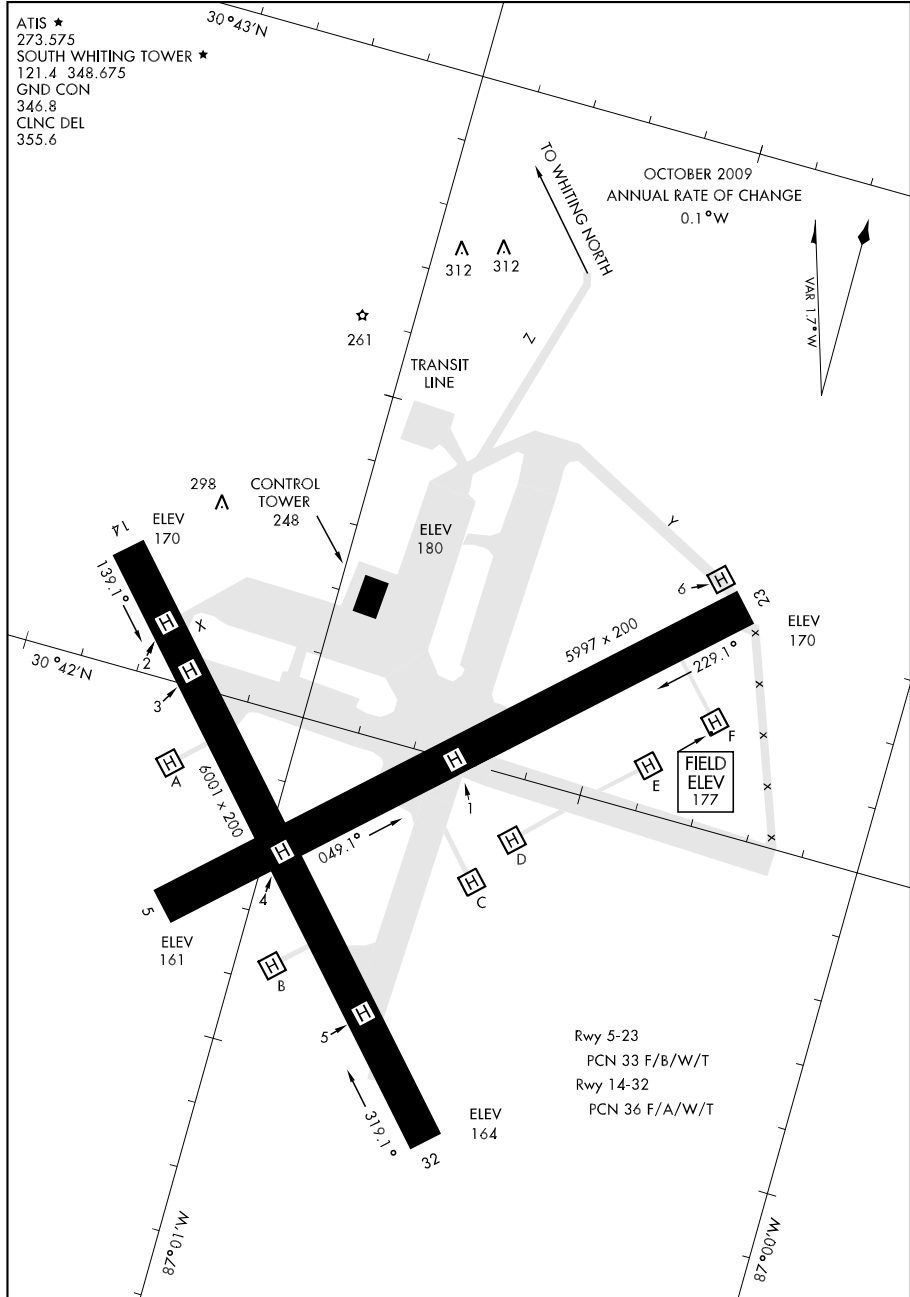
09295

AIRPORT DIAGRAM

AFD-1909 [USN]

WHITING FLD NAS (SOUTH) (KNDZ)

MILTON, FLORIDA



AIRPORT DIAGRAM

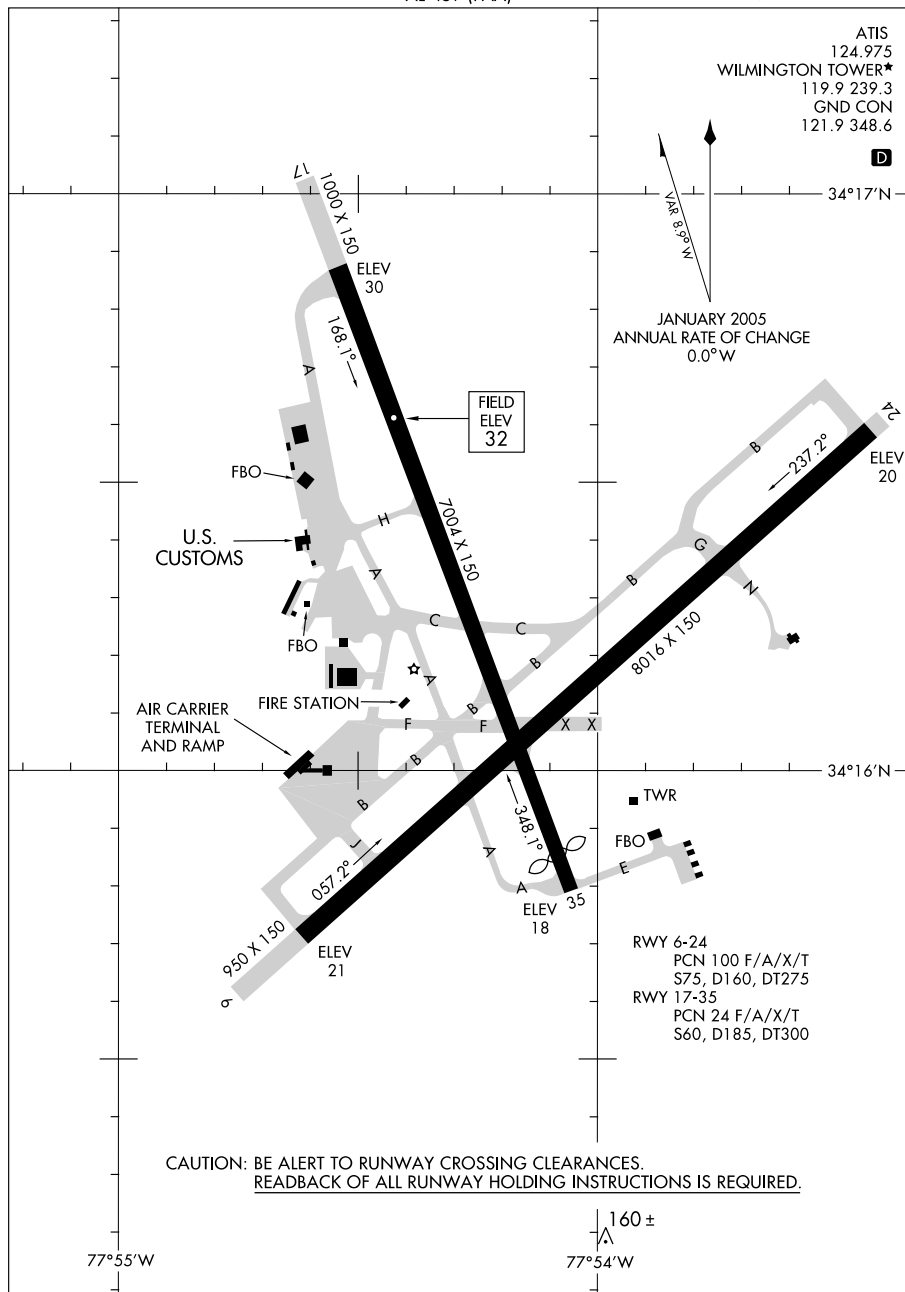
MILTON, FLORIDA

WHITING FLD NAS (SOUTH) (KNDZ)

09295

AIRPORT DIAGRAM

AL-459 (FAA)

WILMINGTON INTL (ILM)
WILMINGTON, NORTH CAROLINA

AIRPORT DIAGRAM

09295

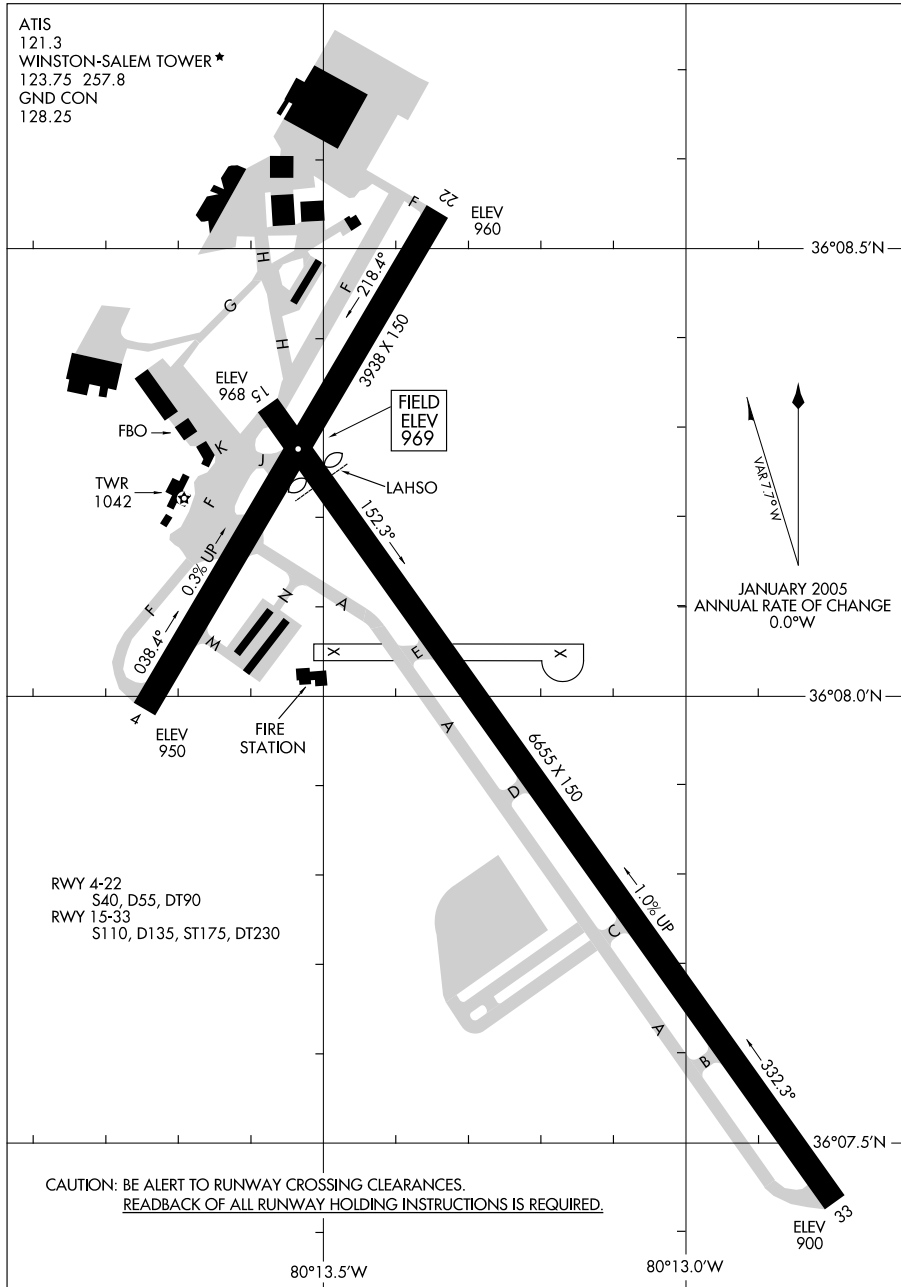
WILMINGTON, NORTH CAROLINA
WILMINGTON INTL (ILM)

09295

AIRPORT DIAGRAM

WINSTON-SALEM /SMITH REYNOLDS (INT')
WINSTON-SALEM, NORTH CAROLINA

AL-463 (FAA)

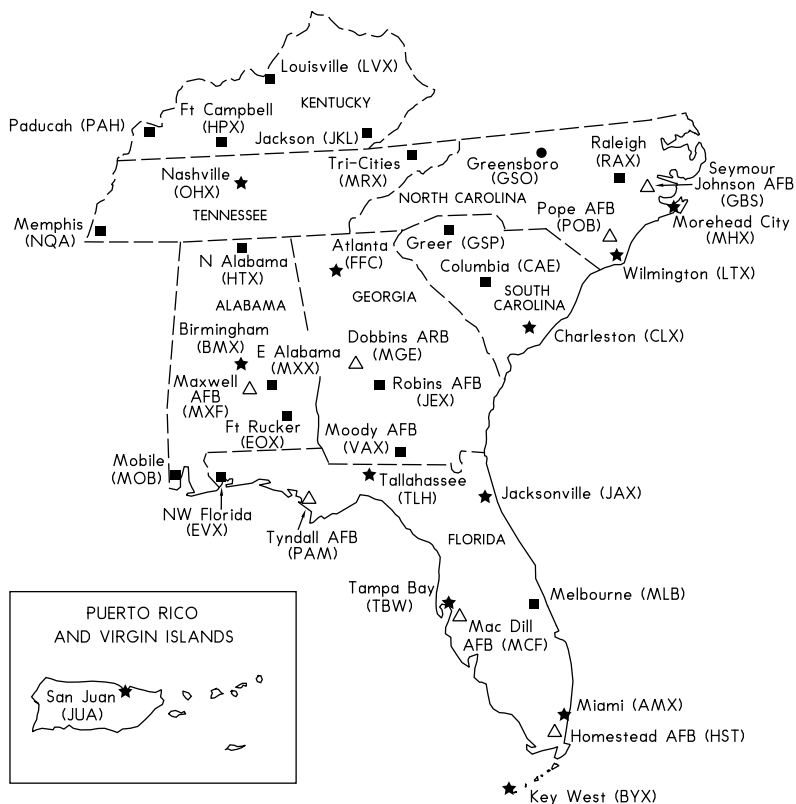


AIRPORT DIAGRAM

09295

WINSTON-SALEM, NORTH CAROLINA
WINSTON-SALEM /SMITH REYNOLDS (INT')

NATIONAL WEATHER SERVICE (NWS)
UPPER AIR OBSERVING STATIONS (UAOS)
AND
WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASE AROUND 1100 UTC AND 2300 UTC DAILY
- OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASE LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE WILL BE FILED.

ENROUTE FLIGHT ADVISORY SERVICE (EFAS)

See Aeronautical Information Manual (AIM) for available services

